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Report on the Quality of Marine Surface Observations

Report number 23
January to June 2000

Data Assimilation
The Met. Office, Bracknell

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REPORT ON THE QUALITY OF MARINE SURFACE OBSERVATIONS:

JANUARY TO JUNE 2000

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Observation Monitoring Team Member, Mr M. Sharpe
Quality Evaluation Team Leader, Mrs M. I. Holmes

For further information on or copies of this report, please contact:

Manager of Observation Monitoring,
Room 343,
Meteorological Office,
London Road,
Bracknell,
Berkshire,
United Kingdom.
RG12 2SZ

E-mail: bmacpherson@meto.gov.uk

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1. INTRODUCTION

In 1985, the Commission for Basic Systems (CBS) agreed that there was a need for GDPS / Global NWP centres to monitor the quality of observations available on the GTS and to exchange monthly lists of stations providing seemingly erroneous data. In 1988 three lead centres were nominated which would have a co-ordinating role of producing, at six-monthly intervals, consolidated lists of suspect stations for given data types together with information on the nature of the error. The Met. Office was allocated the role as lead centre for marine surface observations which encompass observations from ships, drifting buoys, moored buoys and other fixed marine platforms. This is the twenty-third of its reports and covers the period January to June2000. For each observing platform identified as suspect, values are supplied for the number of observations received at The Met. Office, the number of these observations with gross errors, the observations' mean differences from the background values used by the numerical data assimilation system and the standard deviations of these differences.

Following the CBS recommendations, by the end of the 1980s there were four centres active in the monthly exchange of monitoring information; The Met. Office, ECMWF, RSMC Tokyo and NCEP. Since then, a number of other centres have also begun to exchange this information and, for the first time, this report includes data provided by Météo-France, who now contribute to quality reports for the European Group on Ocean Stations (EGOS). Initially, the only monitoring information exchanged on marine surface observations related to pressure, and the first two WMO reports addressed that parameter alone. Since then, the reports have contained monitoring statistics for wind observations, which are now being exchanged between centres on a consistent monthly basis. In addition, the report contains monitoring results for sea-surface temperature (SST). Due to changes to the observation processing system and database structure at Bracknell, there has been no monitoring of SST data at here since May 1998. As was the case for reports 20, 21 and 22, the SST information presented in this report has, therefore, been compiled, with permission, from the monthly NCEP monitoring reports and so is not directly comparable with that presented in previous reports. It is now hoped that SST monitoring data from The Met. Office, for use in these reports, will be fully available as of report number 25.

2. MONITORING METHODS

Errors in observations may arise from a number of sources: the instrument may be malfunctioning, figures may be mistaken while being transferred manually, or there may be corruption of data during transmission. Errors can also arise in the pressure report if the adjustment to sea level is made incorrectly or not at all, and a poorly sighted anemometer can result in errors in the observations of wind. For SST observations, the depth at which the observation is made can be crucial. 'Surface' observations from buoys are usually made at a depth of around 0.5m, whereas ships may take a measurement between a depth of 10m and the surface, depending on the method used. At present, there is no indication given within the report of the observation's depth, so it is not possible to determine the significance of this factor. (By contrast, satellites measure the temperature of the ocean's 'skin' which is generally slightly cooler than the temperature immediately beneath, by several tenths of a °C, as a result of evaporative cooling and other surface processes.)

Some errors can be detected by applying checks on the code format and the internal consistency of the report (for example: are the position and pressure consistent with a report 6 hours earlier?). Checks on spatial consistency are possible if there are other nearby observations. However, such quality checks are unable to identify errors on all occasions and it is recognised that the numerical data assimilation systems in use today can provide global reference values applicable in observation monitoring. The short-term forecast from the previous numerical analysis, commonly known as the first-guess or background field, provides perhaps the most useful information on observation quality, as it represents an accurate and spatially consistent estimate of the observed value which is independent of the observation itself. Observation-minus-background (hereafter referred to as O-B) differences are at the core of all monitoring work by GDPS centres. For SST, it has not, in previous reports, been possible to use a background field with which to compare the observed values, as is done for wind and pressure observations, since no forecast of SST is performed at The Met. Office. Instead, the analysis field was used; a sufficiently good approximation due to the slowly varying nature of SST, relative to parameters measured above the surface. (These analyses are performed daily at The Met. Office from an assimilation of both surface and satellite observations.) There is one drawback in using the analysis field as an alternative: it is dependent upon the observations themselves. This is a major limitation when it comes to assessing observation quality since the results are not straightforward to interpret. Since, however, the SST information presented in this report is derived from the monthly NCEP monitoring reports, it is based on the O-B data therein.

Taking all marine surface observations together, the values of O-B have distinct characteristics. The vast majority of the observations show quite small departures from background and the distribution of O-B is nearly Gaussian, with little or no bias. The errors in the background field probably contribute most to the values of O-B for these observations. There is often, however, a smaller group of observations departing much more from the background, for which observation error is the only reasonable explanation for the large values of O-B. Studies of the distribution and variation of O-B at different points around the globe enable reasonably accurate estimation of background error, and this provides the basis for the monitoring methods described here. Those marine observing platforms for which, in a sufficiently large sample, the observed values differ from the background by an amount significantly in excess of the estimate of background error, may be labelled as suspect with a high degree of confidence. The limits used here to identify suspect observing platforms have been set sufficiently stringent to preclude much likelihood of the background, rather than the observations, being in error.

Each monitoring centre produces a monthly list of the identifiers of marine observing platforms considered suspect according to the departure from the model background values. All observations, both synoptic and asynoptic, are assimilated. At The Met. Office (as of May 2000) and ECMWF, the background fields are interpolated to the observation time whereas Météo-France, Tokyo and Washington, use the background value valid at the nearest main synoptic hour.

Given that the number of observations made during the month is at least 20, then the condition used by all centres for obtaining platforms for the suspect lists is that at least one of the following criteria are satisfied:

Pressure

1. the | mean of O-B |	≥4.0 hPa	
2. the standard deviation of O-B	≥6.0 hPa	
3. the percentage of gross errors	≥25	

Wind

1. the | mean of O-B |	≥5.0ms^{-1}	(Speed)
	≥30°	(Direction)
2. the standard deviation of O-B	≥80°	(Direction)
3. the percentage of gross errors	≥25	

Gross errors are defined as observations that depart from the background by more than 15hPa (Pressure) or 25ms^{-1} (Vector Wind). The mean and standard deviation of the samples are evaluated excluding gross errors and in this way occasional 'wild' values resulting from, for example, corruption during transmission, do not influence the sample characteristics. Direction statistics are also calculated excluding values in light winds, where either the observed or background speeds are less than 5ms^{-1}.

Relatively little information is exchanged between centres on a regular monthly basis for SST.

The monthly results for pressure from all five monitoring centres show considerable agreement, both on the observing platforms listed as suspect and the values of the mean and rms difference from each centre's background. Differences between the monthly suspect lists are usually due to the different numbers of observations available at each centre. The cut-off varies between 6 and 24 hours. There are also some unexplained variations in the data receipt between the centres, which may be due to problems in the GTS or in the local procedures for handling the data. Monitoring results for wind speed also show reasonable agreement on the mean and standard deviation from each centre's background; there is less agreement as to which platforms are listed, reflecting the greater uncertainty when monitoring wind speed.

This report draws together all the monthly monitoring results exchanged on marine surface data and identifies a list of observing platforms that have provided observations of poor quality over the 6-month period. In drawing up this list, there have been a number of guiding principles:

1. As with the monthly lists, accuracy is assessed relative to background values.
2. Observing platforms are listed only where there is a very high degree of confidence that the observations rather than the background values are in error.
3. At least 40 reports are required over the period in which the observations are considered suspect.
4. The perceived accuracy over the last part of the six-month period is of greatest importance; observing platforms are not listed if there has been recent improvement and their reports are at present without major error.
5. Given that the number of observations made during the period is greater than or equal to 40, then the condition for listing a platform as suspect in this report is that at least one of the following criteria are satisfied:

Pressure

1. the | mean of O-B |	≥3.5 hPa
2. the standard deviation of O-B	≥5.0 hPa
3. the percentage of gross errors	≥25

Wind

1. the | mean of O-B |	≥5.0ms^{-1}	(Speed)
	≥30°	(Direction)
2. the standard deviation of O-B	≥6.0ms^{-1}	(Speed)
	≥60°	(Direction)
3. the percentage of gross errors	≥25	

SST

1. the | mean of O-B |	≥4.0 °C
2. the standard deviation of O-B	≥6.0 °C
3. the percentage of gross errors	≥25

All observations having gross errors are excluded from the calculation of the mean and standard deviation of O-B. The same gross error limits apply in these reports as in the monthly lists. The Met. Office normally sets a limit of 5 °C for SST, although this does not apply to the data presented in this report since the monthly statistics from NCEP are based on a limit of 15 °C. This is one of the reasons why this data is not directly comparable with that presented in previous reports. Additionally, the criteria previously used by The Met. Office for these reports have been based on rms O-A and gross errors only. Aside from this, even if the same monitoring methods were used at The Met. Office and NCEP, there would always be a risk associated with treating the results obtained using different models as comparable.

The limits set on the bias and standard deviation of O-B are slightly less stringent than those for the monthly lists because the sample sizes are larger. They are only applied over the last part of the period if there has been a recent deterioration in quality. It is possible that there are a few observing platforms listed in this report that have not appeared on any of the monthly lists. This can occur if they report infrequently and only produce a large enough sample over a period of several months or if deterioration occurs at the end of the period; for a platform that reports very frequently. The 6-month list is longer than most of the monthly lists because many ships cease reporting for variable periods of time, presumably in most cases while they are in port or out of service. Only over a relatively long period, probably more than 6 months, is a representative sample obtained from all those ships providing observations.

3. MONITORING RESULTS

The monitoring results presented in this report relate only to data exchanged over the GTS. Observations from marine platforms are transmitted in one of two formats: the SHIP code, used for most observations from ships, moored buoys and other fixed platforms, and the BUOY code, used mostly for observations from drifting buoys. In this report, the term "ship observations" refers to those received in the SHIP code and the "drifting buoy observations" to those received in BUOY code. The SHIP code indicates whether the observation was made manually or by an automatic system and accordingly the sub-divisions "manual ship" and "automatic ship" will be defined.

N.B. During the period of this report there has been no monitoring of SST data at The Met. Office although SST information is presented, with permission, which relates to the monthly monitoring reports from NCEP. This situation has arisen due to the changes made in the observation processing system at Bracknell and the consequent changes to the databases used for monitoring. It is now hoped that the monitoring of SST data will be resumed, giving monitoring results for use in these reports, during the period July to December 2000.

3.1 Pressure

In the six-month period, January to June 2000, 167 133 2 observations of pressure were monitored at Bracknell from 6 143 manual ships, 333 drifting buoys, and 369 automatic ships. The number of reports received from individual ships varies greatly as Table 1 demonstrates; apparently, a large percentage only report once. The reason for this is unclear but it may be a result of errors in the part of the message giving the ship identifier. A comparison with the corresponding table in report number 22 shows a decrease in the numbers of reported identifiers for manual ships, although this change is mainly in the number of identifiers with 40 reports or less. Automatic ships have increased in number by about 5% and drifting buoys have decreased in similar proportion. Since most marine observations are located in the northern hemisphere, there is inevitably some seasonal variation in the number of vessels reporting, especially in the case of buoys, since new or replacement buoys are generally deployed in better weather conditions. Considering the general trends over previous reports, the recent trend has been declining numbers of drifting buoys and growing numbers of automatic ships with an overall increase in the number of manual ships.

Table 2 shows the number of observations of pressure that have been received over the GTS at Bracknell and processed, over past 6-month periods. Due to changes in data storage methods at Bracknell in May 1991, report number 5 covered the period January to May 1991 only, thence figures for January to June 1991 have been scaled-up in order to make a fair comparison with other 6-month periods; this may not be entirely accurate. Further changes in November 1993 for drifting buoys and automatic ships for pressure and winds, may have allowed duplication of a few identifiers in totals for the period June to December 1993, as reclassification from one observation type to another occurred. The observation distribution shown in Table 2 will also have been affected in the long term with a slight shift towards drifting buoys; no duplication of observations occurred however. SST observations were not affected by the November 1993 change. The period January to June 1998 is also based on only 5 months data (February-June), but the numbers of observations received have been scaled up, as in the 1991 case.

Figure 1 shows the information presented in Table 2 more clearly. It can be seen that the total number of observations remained fairly steady with only minor fluctuations until report number 11 (January-June 1994). Since that time however, there has been a steady increase in the total, with the number of observations of pressure nearly doubling between reports 11 and 16 (July-December 1996), a period of just 2.5 years. This increase was due to the increase in the number of reports from each drifting buoy, as reliability has improved; many drifting buoys now make over 2,000 pressure observations during a 6-month period. The number of reports from drifting buoys now exceeds those for manual ships by around 75%, with a little under half of all marine pressure observations now being made by drifting buoys. The sudden increase seen in the number of automatic ships in report number 19 (January-June 1998) was due to observation processing

changes at The Met. Office, whereby all reports from 'automatic ships' are processed, rather than only one report per 6-hour assimilation period, as previously.

A histogram of O-B differences for all ship pressure reports in the period January to June2000 is shown in Figure 2a, together with the Gaussian distribution with the same mean and standard deviation. Although almost all values fall within the range +5 to -5 hPa, a small number of much larger values, presumably resulting from erroneous observations, contribute to the large standard deviation of the population. The distribution for all those observations which fail the automatic quality-control checks is broad (Figure 2b). The remaining 96% of the observations, that pass the quality checks, show a distribution of O-B which is very close to Gaussian (Figure 2c) with a mean of -0.2 hPa and standard deviation of 1.4 hPa. The principal contribution to the standard deviation is assumed to be from background errors.

A global estimate of the background error, such as that provided above, can conceal large spatial variations. Background values will be more accurate in data-rich areas (e.g.: in the North Sea or Mediterranean) or where the meteorological variability is low (e.g.: the tropics). The geographical distributions of the mean and standard deviation of the values of O-B from all ship observations which pass the quality-control checks, have been calculated for 10-degree latitude-longitude boxes and are plotted in Figures 3 and 4. In most areas, the magnitude of the mean is less than 0.5 hPa, the exceptions being generally where the sample size is small. The standard deviation is generally around 1.5 hPa, but larger in the southern oceans; 2.5 hPa or more. The number of ship pressure reports accepted by the model quality control in each 10-degree box is shown in Figure 5.

Table 3 contains a list of those ships and drifting buoys considered to have produced suspect observations of pressure in the period January to June 2000. Values over the six-month period are given for the number of observations of pressure available for Met. Office global model runs, the number of observations differing from the model background value by more than 15 hPa (gross errors), and the mean and standard deviation of the model O-B. The number of times the identifier has appeared on the monthly suspect lists from the five monitoring centres is also given. In order to give a detailed picture of the frequency of reporting and any changes in the observation accuracy, 6-month time-series of O-B differences are given at the end of the report for each of the identifiers listed.

An interesting characteristic of the errors identified here, which soon becomes obvious on inspection of the time-series charts at the end of this report, is that most can be attributed to a bias in the observed pressure. In many cases, the bias is constant over the whole monitoring period; although some values depart greatly from the sample mean, presumably due to some gross error in the observation, these are generally isolated instances. In only a few cases are there regular large random departures from background. Those observing platforms listed in Table 3 which appeared in report number 22 (July to December 1999) have been indicated with an asterisk. A comparison of the statistics given here with those in the report number 21 (January to June 1999), clearly indicates that the bias in the pressure observations from a few ships has hardly changed for more than a year.

Statistics for those marine observing platforms listed in report number 22 and which do not appear in Table 3b, are given in Table 4 along with comments on the quality of their pressure observations. Time-series charts of the pressure observations from these platforms are not given. Less than 40 reports were received in the 6-month period for many of the ships on this list. Approximately 20% of them, however, do show some improvement in the quality of their observations.

3.2 *Wind*

The monitoring of observations of wind presents more problems than for pressure. On the majority of observing platforms, wind is measured using anemometers; the reported speed is dependent upon the averaging period and the height of the instrument above sea level, which varies a great deal from platform to platform. Since large structures distort wind flow, factors affecting the wind measurement also include the siting of the anemometer and the bearing of the wind with respect to the structure. (The factors outlined above do not apply to those ship observations where wind speed is based on visual estimates of the sea state.)

In these monitoring results, the background winds are valid at a height of 10 metres above mean sea level; slightly lower than the average height of ship anemometers. Where anemometer height is much different from 10 metres, a significant O-B speed bias may be evident. Examples of this are, observations from oil rigs or tankers with anemometer heights of 50m or more and buoys, where the anemometer can be as low as 2m.

In the period January to June 2000, 840 761 wind observations were available for monitoring at Bracknell, from 5 948 manual ships, 107 drifting buoys, and 377 automatic ships. (More detail is given in Table 1.) The number of reported manual ship identifiers has slightly since report number 22 but is still higher than had previously been the case since 1993. Numbers of automatic ship identifiers have remained stable. A continuing decrease in the number of reported drifting buoy identifiers has taken this back to the level last seen in 1997. As stated for pressure observations, the large increase in the number of monitored wind observations, seen in report number nineteen, was largely due to the inclusion of all 'automatic ship' data, not just one report in each six hour period.

Histograms of O-B differences for ship observations of wind speed are presented in Figures 2d, 2e and 2f and of wind direction in Figures 2g, 2h and 2i. As with observations of pressure, those wind observations that fail the quality-control checks differ most from background, some by as much as 50 ms^{-1}, and they make a large contribution to the variance of O-B. The distributions of O-B wind speed and direction for the remaining 90 per cent of the observations are nearly Gaussian. There is a speed bias of +1.0 ms^{-1} relative to background, with a direction bias of just -2.4°.

Figures 6 and 7 show the geographical distributions over the six-month period of the mean and standard deviation of O-B for ship observations of wind speed that pass the quality-control checks. The numbers of wind reports used to generate these statistics are presented in Figure 8. The standard deviation of O-B wind speed is typically 2.5 to 4 ms^{-1} in middle latitudes and 2 to 3 ms^{-1} in the tropics. The bias is generally around +1 ms^{-1}, but exceeds +2 ms^{-1} in a few places. Similar distributions of the mean and standard deviation of O-B wind direction are shown in Figures 9 and 10. Only reports where both the observed and background wind speeds are greater than 5ms^{-1} were used to obtain these values. The magnitude of the bias is less than 10 degrees in most places. The standard deviation is generally between 20 and 30 degrees globally but in some data-sparse areas, it is as large as 40 or 50 degrees. The numbers of reports of wind direction used to generate these statistics are presented in Figure 11.

Figures 6-11 provide reference values against which to compare the O-B characteristics for different marine observing platforms. Table 5 contains a list of those ships and drifting buoys considered to have produced suspect observations of wind speed in the period January to June 2000, and in Table 7 a similar list is provided for wind direction. Values are given for the number of observations of wind received at The Met. Office, the number of observations having a vector difference from background of more than 25ms^{-1} (gross errors), and the mean and standard deviation of O-B. Time-series of O-B are given at the end of the report for each listed identifier. In the majority of the cases of suspect speed observations, a constant bias is clearly evident. Errors in observations of direction are more random in nature. Tables 6 and 8 contain statistics for platforms reporting in ship code which are not included in Tables 5 and 7 but that were listed in the previous report, for wind speed and direction respectively. Time-series plots for these identifiers are not included in this report.

3.3 Sea-surface temperature

Since there has been no monitoring of SST observations at The Met. Office during the period covered by this report, the results presented here, derived, with permission, from the monthly suspect lists published by NCEP, are much less comprehensive than those in previous reports. It has not been possible, for instance, to identify how many observations of SST have been received over the GTS or how many of each observation platform type have been operational during the period (as indicated in Table 1). Usually, however, drifting buoys provide a substantial proportion of the total number of SST observations received, despite their numbers being relatively low. This is due to the frequency of buoy observations; hourly in many cases, with ships tending to report only at the main synoptic hours.

It has not been possible to produce any of the figures normally used to represent SST statistics; observation numbers, mean O-A and standard deviation O-A. These typically show overall biases of small magnitude (≤ 0.1 °C) for all observation types. It is usually the case that ship observations have a standard deviation O-A approximately double that for both fixed and drifting buoys. This is partly due to both the frequency of buoy reports, relative to those from ships, and their quasi-constant location, giving them increased weight in the analysed field. As a result of the small number of SST observations at high latitudes and hence, particularly in the Southern Hemisphere, the decreased reliability of the analysis, the largest O-A biases tend to occur in these areas. (The coverage provided by drifting buoys is extensive, the exception being tropical areas of the Atlantic, and the Polar Regions. Fixed buoys, however, tend to be largely concentrated in coastal regions, with particularly high observation densities around the UK and the USA, as well as Japan and Hawaii.)

Table 9 contains a list of the ships and drifting buoys considered to have produced suspect observations over the 6-month period. The comments given in each case provide an indication of the main reason for the station to be listed as suspect; for the reasons mentioned previously, time-series charts for SST have not been included in this report. The majority of the identifiers appearing on the list do so because of bias. As in reports number 20, 21 and 22, the normal form of Table 10 has not been used, since statistics for the whole of the current period are not available. Instead, Table 10 shows those identifiers listed as suspect in the monthly NCEP report for June 2000, for which there is insufficient information to make a judgement as to the quality of the observations over a longer period.

4. SUMMARY

129 marine observing platforms are listed as producing suspect observations of pressure over the period January to June 2000, and 64 as producing suspect wind observations. 38 platforms are listed as producing suspect SST observations, as assessed from the monthly NCEP monitoring reports. The first report issued by RSMC Bracknell, for the period January to June 1989, listed 150 marine platforms producing suspect observations of pressure. With the selection criteria remaining unchanged, an initial reduction in the number of platforms listed as suspect was followed by a series of reports listing similar numbers of suspects but an increasing trend has emerged over the last two years. When considered alongside the fluctuations in numbers of platforms reporting and observations monitored, this trend does not, it seems, represent decreasing observation quality. Over the same period, there have been increasing numbers of wind observing platforms listed as suspect, although this also appears not to be a worrying trend.

The most common characteristic in the case of identifiers listed as producing suspect pressure observations is bias in the reported pressure, sometimes remaining constant for many months. In the case of wind suspects, the most common reason for listing a platform is a bias in the reported wind speed, while a few show large standard deviations or biases in wind direction. For sea-surface temperature observations, bias is again the most common cause of error.

The selection criteria have been set sufficiently stringent to ensure that the platforms listed are only those for which there is a high degree of confidence in their reports having errors. There are many others, not listed here, for which there must be considerable doubt over the quality of the observations. A wider range of monitoring results is available from The Met. Office on request.

TABLE 1: FREQUENCY DISTRIBUTION OF THE NUMBER OF REPORTS OF PRESSURE, WIND AND SEA SURFACE TEMPERATURE FROM INDIVIDUAL IDENTIFIERS AVAILABLE FOR MONITORING AT BRACKNELL, JANUARY TO JUNE 2000.

Number of reports	Number of manual ships reporting			Number of drifting buoys reporting			Number of automatic ships reporting		
	Press.	Wind	SST*	Press.	Wind	SST*	Press.	Wind	SST*
1	2911	2724	0	52	37	0	177	170	0
2-10	846	800	0	10	10	0	59	50	0
11-20	255	254	0	3	3	0	5	6	0
21-40	311	335	0	12	5	0	9	5	0
41-100	614	644	0	15	11	0	9	7	0
101-200	591	598	0	23	6	0	9	17	0
201-500	541	527	0	38	5	0	34	70	0
501-1000	56	47	0	69	15	0	31	31	0
1001-1500	12	12	0	62	5	0	26	16	0
1500+	6	7	0	49	10	0	10	5	0
Total	6143	5948	-	333	107	-	369	377	-
(Report 22)	(6756)	(6265)	(')	(357)	(123)	(-)	(350)	(370)	(-)

* numbers are for automatic (fixed) buoys only

TABLE 2: NUMBER OF OBSERVATIONS OF PRESSURE RECEIVED AT BRACKNELL ON THE GTS FOR EACH OF THE SIX-MONTH PERIODS COVERED BY THE WMO REPORTS ON THE QUALITY OF MARINE OBSERVATIONS.

Period	WMO report number	Number of Observations			
		Manual ships	Drifting buoys	Automatic ships	Total
Jan - Jun 1989	1	424087	174971	40082	639140
Jul - Dec 1989	2	421315	151972	58016	631303
Jan - Jun 1990	3	424335	177927	63847	666109
Jul - Dec 1990	4	412430	205488	71146	689064
Jan - Jun 1991	5	364760	177069	64401	606230
Jul - Dec 1991	6	348710	148604	68456	565770
Jan - Jun 1992	7	332443	216872	73893	623208
Jul - Dec 1992	8	336958	247873	80862	665693
Jan - Jun 1993	9	340293	288208	77317	705818
Jul - Dec 1993	10	348082	316261	88650	752993
Jan - Jun 1994	11	334134	279963	111928	726025
Jul - Dec 1994	12	383760	305618	142468	831846
Jan - Jun 1995	13	369781	407111	124537	901429
Jul - Dec 1995	14	394016	528938	138653	1061607
Jan - Jun 1996	15	430162	566035	122909	1119106
Jul - Dec 1996	16	477928	621869	133221	1233018
Jan - Jun 1997	17	446530	623835	122178	1192543
Jul - Dec 1997	18	453399	684292	140227	1277918
Jan - Jun 1998	19	426622	700743	423217	1550582
Jul - Dec 1998	20	443548	700239	497313	1641100
Jan - Jun 1999	21	432506	697983	466311	1596800
Jul - Dec 1999	22	448996	771624	500070	1720690
Jan - Jun 2000	23	443023	772510	455799	1671332

TABLE 3: LIST OF MARINE OBSERVING PLATFORMS REPORTING SUSPECT PRESSURE OBSERVATIONS OVER THE PERIOD JANUARY TO JUNE 2000.

Column 1 Call sign or identifier.
Column 2 Number of pressure observations available for monitoring over the 6-month period, excluding duplicates, but including any observations with gross errors.
Column 3 Number of pressure observations differing by more than 15 hPa from background (gross error).
Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.
Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.
Columns 6-10 Number of times observing platform has appeared on suspect lists. B=Bracknell, E=ECMWF, F=MétéoFrance, T=Tokyo, W=Washington.
Column 11 Comments on quality of pressure observations.

Notes:
1. Units are hPa.
2. Observing platforms marked with an asterisk were listed in the previous report July to December1999)

Table 3a: Platforms reporting in BUOY code

i): Platforms ***non-operational*** *at the end of the reporting period*

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
14917	61	19	3.5	-9.4	2	2	1	0	2	Gross errors and bias
15536	436	32	3.5	-0.2	1	1	1	0	1	Gross errors at end of period
16936	718	0	3.0	-0.8	1	1	1	0	1	Bias from March
17519	671	53	4.5	-2.3	2	1	2	1	2	Gross errors from March
17536	965	0	3.0	1.5	1	1	1	1	1	Bias from May
21902	199	13	6.2	-6.2	2	2	2	1	2	Standard deviation and bias
22901	244	10	6.5	-0.5	1	1	1	1	1	Standard deviation
22902	198	198	---	---	2	2	2	0	2	Gross errors
25565	514	514	---	---	4	4	3	0	4	Gross errors
31902	79	79	---	---	1	1	1	0	1	Gross errors
31953	3857	92	3.8	7.1	5	5	5	5	5	Bias
31959	216	6	5.4	0.5	0	0	0	1	0	Standard deviation
32639	1206	62	4.4	-2.2	2	2	2	2	2	Gross errors and bias from April
33904	1671	5	3.0	3.7	3	3	2	3	3	Bias from April
33905	642	0	2.7	3.1	1	1	1	1	1	Bias from April
33906	741	40	1.3	-2.9	0	0	0	0	0	Gross errors from April
33954	1501	8	2.9	2.7	2	2	1	2	2	Bias drift; final value 7.6 hPa
34915	1369	84	1.1	-0.1	1	1	1	1	1	Gross errors from May
41853	723	6	3.0	4.0	2	2	0	2	0	Bias
44513	54	10	6.7	-1.3	1	0	1	0	1	Standard deviation

Continued >>

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
44516	217	71	2.8	0.7	1	1	1	0	1	Gross errors
44517	128	128	---	---	1	1	1	0	1	Gross errors
44657	259	248	8.3	-2.4	2	2	2	2	2	Gross errors
44766	1593	14	3.2	-1.6	1	1	1	1	1	Bias from February
46509	97	90	1.5	-1.1	1	1	1	0	1	Gross errors
46517	730	33	4.3	1.9	2	1	1	1	1	Standard deviation from March
46681	127	98	10.9	-2.2	2	1	2	2	2	Gross errors
46923	140	0	0.8	-6.0	1	1	1	1	1	Bias
46930	322	179	1.3	1.1	1	1	1	0	1	Gross errors
48521	57	0	1.9	-3.5	0	0	0	0	0	Bias
48575	1836	416	5.3	-1.5	4	4	3	4	4	SD, gross errors from May
52815	697	175	2.0	0.7	2	2	2	1	2	Gross errors from April
52905	164	1	4.0	-5.2	1	1	1	1	1	Bias, SD drift; final value 7.2 hPa
54812	54	54	---	---	1	0	0	0	1	Gross errors
55577	4060	13	1.3	0.3	1	1	1	0	1	Bias at end of reporting
56810	66	66	---	---	1	0	0	0	1	Gross errors
61534	1344	54	4.7	6.9	2	2	1	2	2	Bias
62510	504	6	6.1	-4.2	1	1	1	1	0	Bias
62554	115	115	---	---	1	1	1	0	1	Gross errors
64516	1334	47	5.2	1.0	0	0	0	0	0	Standard deviation
65594	1283	295	3.9	0.8	1	1	1	1	1	Gross errors from February
71513	936	204	4.4	-0.4	1	1	1	1	1	Standard deviation from June
71548	43	33	6.3	-2.6	0	0	0	0	0	Gross errors

*ii): Platforms **operational** at the end of the reporting period*

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
15537	833	0	1.9	-2.3	0	0	0	0	0	Bias at end of period
23517	615	8	2.1	2.8	1	1	1	1	0	Bias from June
31949	7104	745	4.6	3.8	3	3	3	3	3	Bias, gross errors from June
31960	745	745	---	---	4	4	4	0	4	Gross errors
46561	1051	0	1.1	-3.7	2	1	0	2	2	Bias from March
55802	44	11	4.3	4.7	0	0	0	0	0	Gross errors and bias

Table 3b: Platforms reporting in SHIP code

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
BOAB *	184	2	2.6	-3.0	1	1	1	0	0	Bias from May
C6FE5	72	0	2.0	5.2	1	1	1	1	1	Bias
C6FH6	42	0	1.3	3.6	0	0	0	0	0	Bias
C6KY3	46	0	1.1	-3.8	0	1	1	1	1	Bias
DGAF	223	1	1.3	-5.2	5	5	4	5	5	Bias
DGSR *	173	8	2.2	-3.3	1	0	0	0	0	Bias erratic; final value -3.8 hPa
DGTB	44	0	1.1	-3.6	0	0	0	0	0	Bias
ELED8	55	2	3.6	-2.6	0	0	2	2	2	Bias from February
ELMQ *	143	6	2.3	-4.7	5	5	4	5	5	Bias
ELOX9	67	1	2.5	3.1	0	0	0	1	0	Bias from May
ELTE6 *	149	0	1.2	-4.7	1	2	3	3	1	Bias
ELUB5 *	147	0	1.7	9.1	4	4	4	3	4	Bias
ELUQ3	56	12	6.2	-4.5	1	1	1	0	1	Standard deviation and bias
ELVJ9 *	346	0	1.7	-4.5	6	6	5	5	5	Bias
ELVY8	193	0	1.8	-2.7	0	0	0	0	0	Bias drift; final value -3.6 hPa
FAVE	42	0	1.4	6.7	1	1	1	0	0	Bias
FNTS	196	1	3.0	1.5	1	1	0	0	1	SD and bias from June
J8KU6	207	3	2.7	-1.1	0	0	0	0	0	SD and bias from June
J8NV	42	0	1.1	6.5	0	0	0	3	0	Bias
KHLN *	81	0	2.7	-3.8	0	0	0	3	1	Bias
KRLZ	216	0	2.2	-1.9	0	0	0	0	0	Bias drift; final value -3.6hPa
KSBG	58	0	1.9	-4.4	1	1	1	1	1	Bias
LAFQ5 *	160	3	2.2	-5.7	6	6	6	0	6	Bias
MXAR9	189	0	2.0	3.4	3	2	0	1	2	Bias from April
NKJU	75	0	1.9	-3.7	1	1	1	1	1	Bias
PCCQ *	123	0	1.8	-6.1	2	2	2	2	2	Bias
PDAH	264	0	1.7	-4.2	3	0	0	2	2	Bias
P3GB4	146	0	2.5	4.4	1	1	1	1	1	Bias
P3NK5	87	1	2.0	4.1	1	1	0	1	1	Bias
P3NL5	43	0	2.0	-3.6	0	0	1	0	1	Bias
P3YR5 *	227	6	6.2	-0.1	2	2	2	3	2	Standard deviation
P3YS5 *	438	3	1.8	4.1	4	4	3	4	4	Bias
SYMK	91	1	1.2	3.6	0	3	2	0	2	Bias
TCMM	115	0	3.3	4.0	1	2	2	0	1	Bias
UACU *	48	3	5.2	2.4	0	0	0	0	0	Standard deviation
UAIS *	72	1	1.3	-10.9	1	1	1	1	1	Bias
UANA	118	1	1.9	-4.0	1	1	1	1	1	Bias
UBAU	110	16	6.2	-2.6	1	1	1	1	1	Standard deviation
UBCB	61	0	2.1	4.8	1	1	1	1	1	Bias
UBHT	46	21	4.6	2.7	1	1	0	1	1	Gross errors

Continued >>

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
UCAD *	106	1	1.8	-5.6	3	3	3	1	3	Bias
UCJB *	66	4	1.9	-6.3	1	1	0	0	1	Bias
UCJL *	156	2	1.6	6.2	3	4	1	2	3	Bias
UCKC *	109	0	1.0	-3.6	0	0	0	0	0	Bias
UCTK	137	12	5.5	-3.5	1	1	1	1	1	Standard deviation and bias
UFAA	50	3	1.7	9.5	2	0	0	0	2	Bias
UFNO *	78	0	2.4	7.0	3	3	2	2	3	Bias
UFXA	103	0	2.9	5.3	2	1	0	2	3	Bias
UGNQ	213	3	4.6	0.6	1	1	1	1	1	SD and bias at end of period
UHVW	77	9	3.4	10.8	0	0	0	2	0	Bias
VCJM *	126	126	---	---	3	3	3	0	3	Gross errors
VCRQ *	52	41	4.7	0.6	1	0	1	0	1	Gross errors
VCRT	98	0	2.7	-4.8	3	2	3	1	1	Bias
VDFP	88	87	0.0	-9.7	3	0	2	0	3	Gross errors
VGFQ *	80	25	2.5	-2.6	0	0	0	0	1	Gross errors from May
VGKM	40	16	5.8	-6.4	0	0	0	0	0	Gross errors
VRUL7 *	43	0	6.9	-1.8	0	0	0	1	0	Standard deviation
VRVV9	58	28	5.6	-6.1	1	1	1	1	1	Gross errors
VTST	101	1	2.4	3.9	2	2	1	0	2	Bias
VVCY	55	1	2.3	-4.7	0	2	1	1	1	Bias
VVML	44	0	1.8	4.2	0	0	0	0	0	Bias
V7BA6 *	78	37	3.0	12.6	1	1	1	4	1	Gross error and bias
WAUU	167	0	3.0	3.1	2	0	2	0	2	Bias from March
WCZ5535	177	2	2.9	-1.7	1	0	1	0	1	Bias from April
WDZB *	162	0	1.2	-5.5	5	4	4	5	5	Bias
WSK2703	42	0	1.5	-4.1	1	0	1	0	1	Bias
WTDF	236	0	1.0	-3.2	0	0	0	0	0	Bias from April
1BBXXUAS	67	0	4.6	7.4	2	0	0	2	0	Bias
3FDY6	44	19	4.5	-4.5	1	0	0	0	1	Gross errors
3FGN3 *	112	19	3.3	-9.1	2	3	3	5	4	Bias
3FPA6 *	49	28	9.9	-6.5	2	0	0	2	2	Gross errors
3FWK3	41	1	2.0	-4.6	0	0	0	1	0	Bias
3FXT6 *	57	3	1.4	5.1	1	1	1	1	2	Bias
4XGV	163	0	3.2	4.2	2	2	2	2	2	Bias from March
48102 *	208	206	5.2	1.6	2	2	2	0	2	Gross errors
52045	642	273	0.9	-0.3	2	1	2	0	2	Gross errors from March
52046	639	116	6.2	-5.8	3	3	3	2	3	Gross errors from March
62405	141	35	6.4	-0.9	2	1	0	0	1	Standard deviation
8PNI *	98	0	1.3	-4.5	1	1	1	1	1	Bias
9VOG	110	0	1.2	3.6	0	0	0	1	0	Bias

TABLE 4: LIST OF PLATFORMS REPORTING IN SHIP CODE NOT APPEARING IN TABLE 3 BUT LISTED AS SUSPECT OVER THE PERIOD JULY TO DECEMBER 1999.

Column 1 Call sign or identifier.
Column 2 Number of pressure observations available for monitoring over the 6-month period, excluding duplicates, but including any observations with gross errors.
Column 3 Number of pressure observations differing by more than 15 hPa from background (gross error).
Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.
Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.
Column 6 Comments on quality of pressure observations.

Notes: 1. Units are hPa

Identifier	N Obs.	NGE	SD	Bias	Comments
ATZS	22	0	5.2	-1.1	Less than 40 reports
CYLX	27	26	0.0	-14.9	Less than 40 reports
C6PE4	235	0	1.5	-0.4	Bias reduced
C6YW	5	0	1.0	5.7	Less than 40 reports
ELJJ5	275	7	1.9	0.4	Standard deviation reduced
ELNC5	107	1	2.2	-0.4	Bias reduced
ELSV2	55	1	1.1	-2.9	Bias reduced
ELTE8	10	0	2.6	-3.1	Less than 40 reports
ELVI2	410	3	2.4	-4.5	Bias reduced from May
ELWR3	450	55	4.7	-2.8	Improvement from May
KMJL	72	0	1.4	-2.8	Bias reduced
LAEP4	260	1	2.4	-1.3	Bias reduced from February
OZBW6	208	0	1.7	-3.0	Bias reduced from February
OZLB	274	0	1.6	-3.1	Bias reduced
PCCW	0	---	---	---	No reports
PCEX	42	0	2.0	2.2	Bias reduced
PGWB	201	1	1.5	-1.0	Bias reduced
UAJS	0	---	---	---	No reports
UAMS	106	11	6.2	-5.8	Improvement from June
UCDM	173	8	2.7	-1.2	Gross errors reduced
UCJI	2	0	0.4	-2.4	Less than 40 reports
UDVB	38	3	3.0	-5.2	Less than 40 reports
UHLE	0	---	---	---	No reports
UICO	34	34	---	---	Less than 40 reports
UIKI	252	2	0.9	1.9	Bias reduced

Continued >>

Identifier	N Obs.	NGE	SD	Bias	Comments
VCTM	98	3	2.9	-2.3	Standard deviation reduced
VCTV	13	3	2.8	5.6	Less than 40 reports
VDLC	14	0	3.3	1.6	Less than 40 reports
VDRC	9	9	---	---	Less than 40 reports
VGJC	39	18	7.5	-2.2	Less than 40 reports
VYNG	4	3	0.0	13.6	Less than 40 reports
V7BB2	0	---	---	---	No reports
WC5932	43	1	3.7	-2.6	Bias reduced
ZCAM9	326	1	3.0	0.6	Bias reduced
ZSDN	10	0	2.0	0.4	Less than 40 reports
3FEA4	60	0	3.2	-0.4	Bias reduced
3FFE8	52	0	2.8	-3.5	Bias reduced
3FIC5	0	---	---	---	No reports
3FTL6	5	0	1.1	-2.8	Less than 40 reports
48101	0	---	---	---	No reports
48111	0	---	---	---	No reports
62125	693	0	1.6	1.5	Bias reduced
62142	0	---	---	---	No reports
9MCU	80	0	3.6	-0.4	Bias reduced

TABLE 5: LIST OF MARINE OBSERVING PLATFORMS REPORTING SUSPECT WIND SPEED OBSERVATIONS OVER THE PERIOD JANUARY TO JUNE 2000.

Column 1 Call sign or identifier.
Column 2 Number of wind speed observations available for monitoring over the 6-month period, excluding duplicates, but including any observations with gross errors.
Column 3 Number of wind observations with vector difference from background of more than 25ms $^{-1}$ (gross error).
Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.
Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.
Column 6-10 Number of times observing platform has appeared on suspect lists. B=Bracknell, E=ECMWF, F=MétéoFrance, T=Tokyo, W=Washington.
Column 11 Comments on quality of wind speed observations.

Notes: 1. Units are ms^{-1}
2. Observing platforms marked with an asterisk were listed in the previous report (July to December1999)

Table 5a: Platforms reporting in BUOY code

*i): Platforms **non-operational** at the end of the reporting period*

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
14538	1778	22	4.8	2.3	1	0	0	0	0	Bias from March
41595	483	26	8.6	-1.3	2	1	1	1	2	Standard deviation, Bias in June
44657	164	147	12.7	11.4	0	2	2	0	2	Gross errors
44721	6075	14	2.9	-1.4	0	0	0	0	0	Bias from May
44727	1023	10	3.1	0.3	0	0	0	0	0	Standarad deviation from May
56505	803	0	3.1	0.7	0	0	0	0	0	Bias from March
62675	61	0	2.2	5.5	1	0	1	0	0	Bias
62722	89	0	2.0	5.4	1	0	0	0	0	Bias
62723	74	0	1.7	5.9	0	0	0	0	0	Bias
62725	54	0	1.5	5.8	1	1	1	0	0	Bias
62761	70	0	1.5	6.1	0	1	1	0	0	Bias
62762	63	0	1.8	5.7	1	0	1	0	0	Bias
62764	65	0	1.0	6.1	0	1	1	0	1	Bias

*ii): Platforms **operational** at the end of the reporting period*

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
43528	70	0	1.8	6.2	1	0	1	0	0	Bias
44724	2149	12	3.3	0.8	0	0	0	0	0	Bias at and of period
52539	516	94	7.7	4.5	2	3	3	0	3	Standarad deviation

Table 5b: Platforms reporting in SHIP code

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
C6JD9	66	1	9.4	6.8	1	1	0	4	1	Standard deviation and bias
C6NI3 *	197	3	5.9	8.6	6	4	5	5	5	Bias
DGCDFD *	198	1	5.4	8.4	3	1	0	5	3	Bias
DGFA	48	0	5.9	7.8	1	1	1	1	1	Bias
DQRA	56	1	5.9	4.2	0	0	0	0	0	SD and bias at end of period
DQVJ	353	0	4.7	1.2	0	0	0	0	0	SD at end of period
ELWC6 *	272	9	6.6	8.3	5	4	5	3	5	Standard deviation and bias
ELXK6 *	92	4	4.3	10.8	2	0	2	0	2	Bias
ELXU4	88	2	6.4	9.0	2	2	2	2	2	Standard deviation and bias
KDBG	283	0	3.5	3.0	0	0	0	1	0	Bias from June
LAQQ2 *	57	1	3.4	4.4	2	0	0	0	0	Bias from February
OYCZ	66	5	6.3	9.2	1	1	1	2	2	Standard deviation and bias
P3GB4	146	0	3.1	5.3	2	0	2	1	1	Bias
P3WQ5	49	2	5.6	5.6	1	1	1	3	5	Bias
SBPO	73	2	6.3	4.8	1	1	1	0	0	Standard deviation
SXYY *	101	1	5.8	7.8	1	4	2	5	2	Bias
UDYG	521	1	4.3	2.3	1	1	0	1	1	Bias from June
VRUH8	194	22	7.9	10.4	3	3	3	2	3	Standard deviation and bias
VRVZ4	87	0	2.4	5.5	2	0	3	0	1	Bias
VRWE7	68	0	6.3	4.9	1	1	1	1	0	Standard deviation
V2CC	43	3	6.4	6.0	1	1	1	0	1	Standard deviation and bias
V2PB1	385	1	4.3	3.0	2	1	3	1	1	Bias from May
WCY5331	444	0	3.2	2.4	0	0	0	0	0	Bias at and of period
WSK2703	42	0	4.4	5.4	0	0	1	0	0	Bias
WTP2735	42	0	5.5	5.5	0	0	1	0	0	Bias
ZCBL4	69	0	2.9	5.2	1	1	1	1	1	Bias
ZSAF	207	1	3.5	2.3	0	0	0	0	0	Bias at end of period
9MUG	137	0	4.7	3.3	1	0	1	1	0	SD and bias from June

TABLE 6: LIST OF PLATFORMS REPORTING IN SHIP CODE NOT APPEARING IN TABLE 5 BUT LISTED AS SUSPECT OVER THE PERIOD JULY TO DECEMBER 1999.

Column 1 Call sign or identifier.
Column 2 Number of wind speed observations available for monitoring over the 6-month period, excluding duplicates, but including any observations with gross errors.
Column 3 Number of wind observations with vector difference from background of more than 25ms^{-1} (gross error).
Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.
Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.
Column 6 Comments on quality of wind speed observations.

Notes: 1. Units are ms^{-1}

Identifier	N Obs.	NGE	SD	Bias	Comments
C6JE5	172	0	3.0	-4.5	Bias reduced
C6JS	151	1	2.9	1.8	Standard deviation and bais reduced
DDPH	0	---	---	---	No reports
DEHZ	309	1	3.7	3.5	Standard deviation and bias reduced
ELGG3	27	0	4.3	5.3	Less than 40 reports
ELTZ2	0	---	---	---	No reports
ELVK2	242	3	5.1	3.6	Bias reduced
J8GK8	352	0	3.7	-0.2	Bias reduced
LAQT2	225	1	3.6	4.6	Bias reduced
PJVQ	164	0	3.2	2.2	Bias reduced
SHIPAB	25	0	2.7	1.4	Less than 40 reports
TSMS	314	0	3.3	4.0	Bias reduced
TSMU	410	0	3.8	4.5	Bias reduced
UCTP	0	---	---	---	No reports
VCTJ	192	1	3.9	4.4	Bias reduced
V2TE	46	0	3.8	0.0	Standard deviation and bias reduced
ZCAX8	182	2	5.6	3.4	Standard deviation reduced
3FSL4	227	0	3.2	5.3	Bias reduced in June
3FTW	0	---	---	---	No reports
3FWM4	516	3	3.8	4.0	Bias reduced
9HII6	71	0	5.0	3.5	Bias reduced
9VMY	38	0	5.2	3.5	Less than 40 reports

TABLE 7: LIST OF MARINE OBSERVING PLATFORMS PRODUCING SUSPECT WIND DIRECTION OBSERVATIONS OVER THE PERIOD JANUARY TO JUNE 2000.

Column 1 Call sign or identifier.
Column 2 Number of wind direction observations available for monitoring over the 6-month period, excluding duplicates, but including any observations with gross errors.
Column 3 Number of wind observations with vector difference from background of more than 25ms^{-1} (gross error).
Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.
Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.
Column 6-10 Number of times observing platform has appeared on suspect lists. B=Bracknell, E=ECMWF, F=MétéoFrance, T=Tokyo, W=Washington.
Column 11 Comments on quality of wind direction observations.

Notes:
1. Units are degrees (°).
2. Observing platforms marked § had a significant bias at some time within the period and the statistics and their plots refer to direction reports associated with background wind speeds greater than 5 ms^{-1}. If no significant speed bias was present, the statistics and plots refer to direction reports with an observed speed greater than 5 ms^{-1}.
3. Observing platforms marked with an asterisk were listed in the previous report (July to December1999)

Table 7a: Platforms reporting in BUOY code

*i): Platforms **non-operational** at the end of the reporting period*

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
44657 §	164	73	28.8	25.8	0	1	2	0	2	Gross errors
44725	301	1	88.0	21.3	1	1	1	1	1	Standard deviation & erratic bias

*ii): Platforms **operational** at the end of the reporting period*

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
32650	52	0	34.7	-31.8	0	1	1	0	0	Bias

Table 7b: Platforms reporting in SHIP code

Identifier	N Obs.	NGE	SD	Bias	B	E	F	T	W	Comments
ELNV6	53	2	66.9	15.6	0	0	0	0	0	Standard deviation
ELUB5	149	0	66.0	8.6	0	1	0	0	2	Standard deviation
FZOP	128	0	43.3	-38.2	0	0	0	0	0	Bias
KAKF	89	1	65.2	3.5	1	1	0	0	2	Standard deviation
PFEU	154	0	69.5	18.8	0	0	0	0	1	Standard deviation
P3FY6	72	0	68.8	-3.9	0	0	0	0	2	Standard deviation
UBAU	113	1	68.9	6.7	0	1	1	1	1	Standard deviaton
UCUF §	98	0	76.9	19.2	0	0	0	0	2	Standard deviaton
UIAE	103	1	44.1	78.9	0	2	1	1	2	Bias
UIAG	112	0	66.3	1.6	0	0	0	0	1	Standard deviation
WBN8469	97	0	73.3	9.6	0	0	0	0	1	Standard deviation
ZFFW	468	0	68.1	13.7	0	0	0	0	0	Standard deviation
3FJR8	60	0	61.1	-5.1	0	0	1	0	0	Standard deviation
32316	361	0	59.3	-31.2	0	1	1	0	3	Bias
46025	1364	0	52.9	-55.1	0	0	0	0	1	Bias
46053	1359	0	47.9	-57.6	0	4	3	0	2	Bias
51308	476	0	40.0	-31.4	0	1	1	1	0	Bias
62120	1199	2	45.5	-33.3	2	2	2	1	2	Bias
62144	783	0	50.8	39.5	1	1	1	1	1	Bias
62405 §	146	1	108.5	-8.3	0	0	0	0	1	Standard deviation

TABLE 8: LIST OF PLATFORMS REPORTING IN SHIP CODE NOT APPEARING IN TABLE 7 BUT LISTED AS SUSPECT OVER THE PERIOD JULY TO DECEMBER 1999.

Column 1 Call sign or identifier.
Column 2 Number of wind direction observations available for monitoring over the 6-month period, excluding duplicates, but including any observations with gross errors.
Column 3 Number of wind observations with vector difference from background of more than 25ms $^{-1}$ (gross error).
Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.
Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.
Column 6 Comments on quality of wind direction observations.

Notes: 1. Units are degrees (°)

Identifier	N Obs.	NGE	SD	Bias	Comments
MRSG8	75	0	70.1	3.7	Less that 40 reports > 5ms-1
UCTJ	0	---	---	---	No reports
UFJJ	182	0	46.7	3.4	Standard deviation reduced
3FSL4	227	0	48.1	-11.6	Standard deviation reduced
46012	0	---	---	---	No reports

TABLE 9: LIST OF MARINE OBSERVING PLATFORMS REPORTING SUSPECT SEA SURFACE TEMPERATURE OBSERVATIONS OVER THE PERIOD JANUARY TO JUNE 2000.

Column 1 Call sign or identifier.
Column 2 Number of sea-surface temperature observations available for monitoring during June 1999 (or May and June if suspect only by considering the two month period), including any observations with gross errors.
Column 3 Number of sea surface temperature observations differing by more than 15 °C from the NCEP background field (gross errors).
Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.
Column 5 Mean of observation-minus-background differences excluding cases of gross error.
Column 6 Comments on quality of sea surface temperature observations.

Notes:
1. Units are °C
2. Observing platforms marked with an asterisk were listed in the previous report (July to December1999)

Table 9a: Platforms reporting in BUOY code

*i): Platforms **non-operational** at the end of the reporting period*

The information available from NCEP did not allow statistics to be assessed for platforms in this category.

*ii): Platforms **operational** at the end of the reporting period*

Identifier	N Obs.	NGE	SD	Bias	Comments
14577	277	153	2.0	-1.0	Gross errors
22912	144	0	1.0	5.0	Bias
22913	146	0	1.2	5.8	Bias
23984	63	36	3.3	-2.6	Gross errors
31965	502	218	5.3	4.9	Bias
31985	267	0	0.3	5.3	Bias
31997	183	41	4.3	-4.8	Bias
32647	158	139	4.2	-10.9	Bias
32810	69	0	0.8	4.1	Bias
43508	134	0	5.4	-5.3	Bias
46736	79	0	0.7	4.3	Bias
46959	155	1	1.3	-5.3	Bias
51599	51	0	0.9	5.5	Bias
51601	47	0	2.1	7.4	Bias
51658	208	0	0.1	4.6	Bias
51679	208	188	3.1	-2.9	Gross errors
51813	241	241	0.0	0.0	Gross errors
64521	255	1	1.0	4.9	Bias

Table9b: Platforms reporting in SHIP code

Identifier	N Obs.	NGE	SD	Bias	Comments
CG2960	138	0	3.1	4.6	Bias
C6OQ8	61	0	1.9	5.1	Bias
ELXV3	79	0	1.7	-5.1	Bias
TSMU	54	0	1.0	-4.1	Bias
UAIR	43	4	2.8	-7.8	Bias
UBCB	82	3	1.6	-4.2	Bias
UCDN	54	1	3.5	5.1	Bias
UCTI	65	0	3.0	-4.0	Bias
V2PE1	41	0	3.0	-4.1	Bias
ZMFR	202	19	6.7	-3.6	Standard deviation
45006	722	0	2.6	-5.0	Bias
46013	712	0	3.8	-4.9	Bias
46025	712	0	1.5	-4.5	Bias
46026	712	24	4.6	-4.6	Bias
46030	712	0	2.6	-4.1	Bias
46060	1382	0	0.3	4.8	Bias
46181	717	0	3.3	6.3	Bias
62109	715	713	2.5	-2.2	Gross errors
62305	719	716	0.3	-1.0	Gross errors
9KWK	52	0	2.2	-4.2	Bias

TABLE 10: PLATFORMS LISTED AS SUSPECT, BY NCEP, IN JUNE 2000 FOR WHICH THERE IS INSUFFICIENT INFORMATION TO JUDGE OBSERVATION QUALITY OVER A LONGER PERIOD.

Column 1 Call sign or identifier
Column 2 Number of sea-surface temperature observations available for monitoring during June 2000, including any observations with gross errors.
Column 3 Number of sea surface temperature observations differing by more than 15 °C from the NCEP background field (gross errors).
Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.
Column 5 Mean of observation-minus-background differences excluding cases of gross error.
Column 6 Comments on quality of sea surface temperature observations.

Notes:
1. Units are °C
2. Observing platforms marked with an asterisk were listed in the previous report (July to December1999)

Table 10a: Platforms reporting in BUOY code

Identifier	N Obs.	NGE	SD	Bias	Comments
17601	21	0	3.8	-4.2	Bias

Table 10b: Platforms reporting in SHIP code

Identifier	N Obs.	NGE	SD	Bias	Comments
CG2564	34	0	3.1	-5.0	Bias
C6PW2	27	9	0.7	0.5	Gross errors
C6QF4	25	0	1.8	5.9	Bias
KHRK	30	0	1.2	4.9	Bias
UICP	27	1	0.8	-6.4	Bias
FNTS	32	2	6.0	-0.9	Standard deviation
UAST	22	0	3.8	4.5	Bias
3FUX6	35	1	1.6	-6.9	Bias
9MCU	28	0	2.0	-4.0	Bias

Figure 1: Number of observations of pressure received at Bracknell on the GTS for each of the six-month periods covered by the WMO reports on the quality of marine surface observations

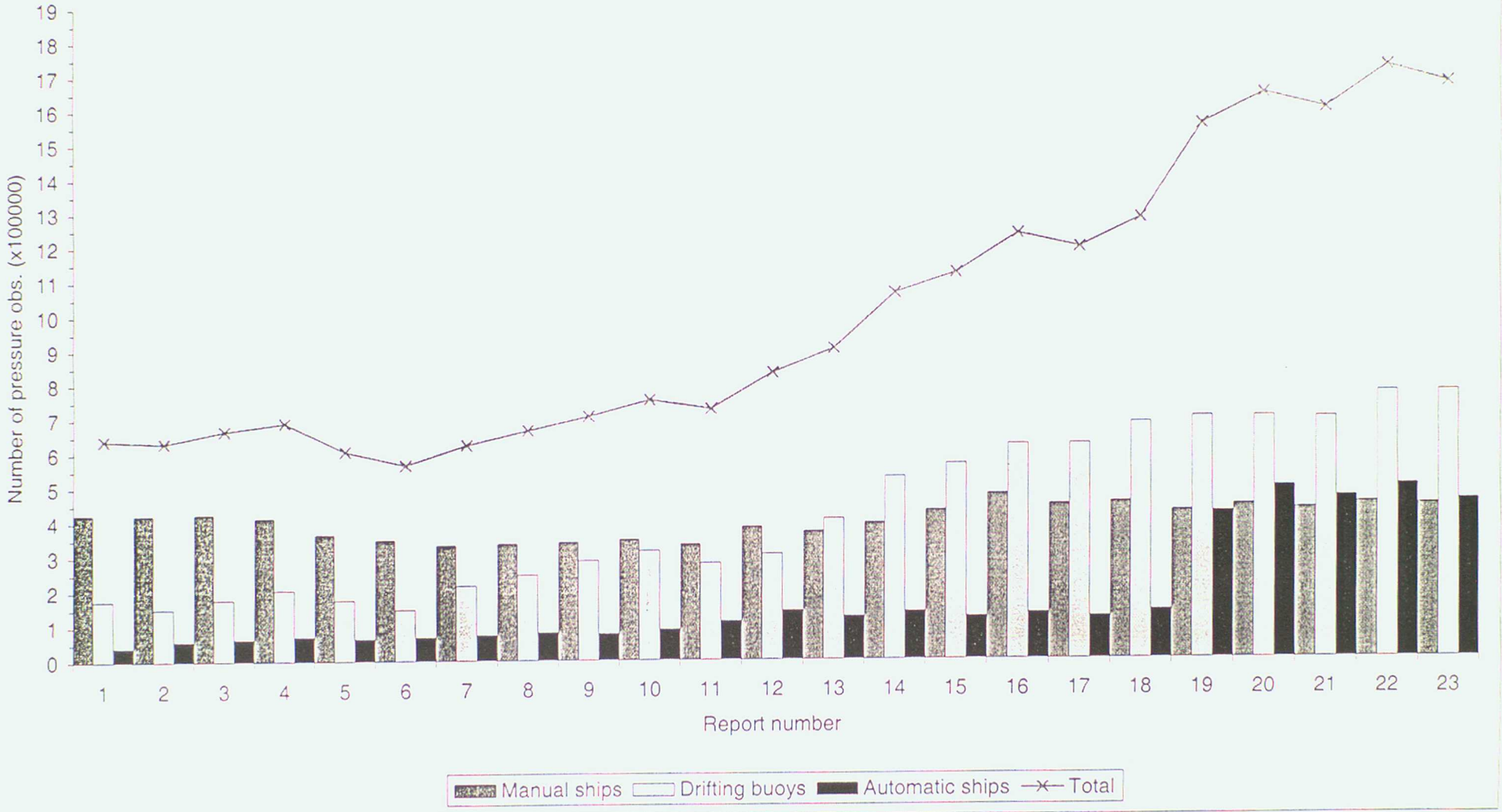
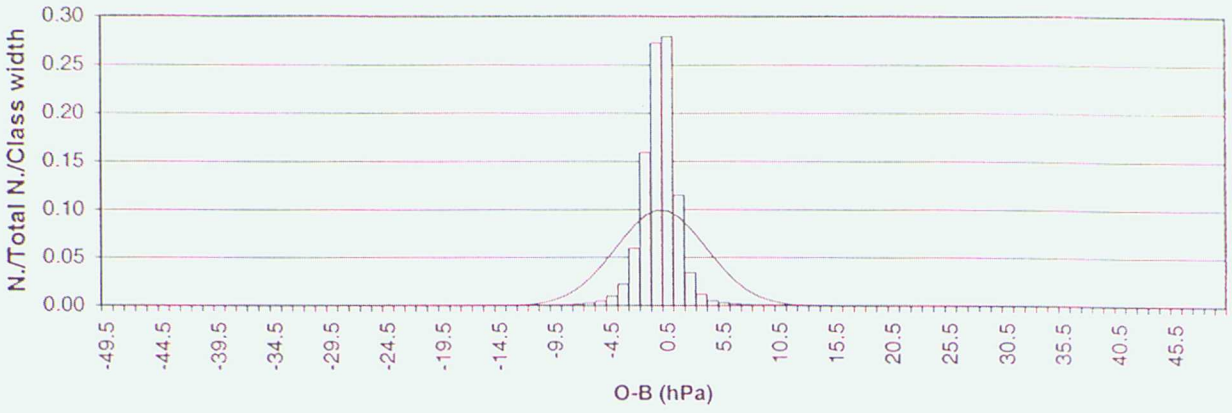
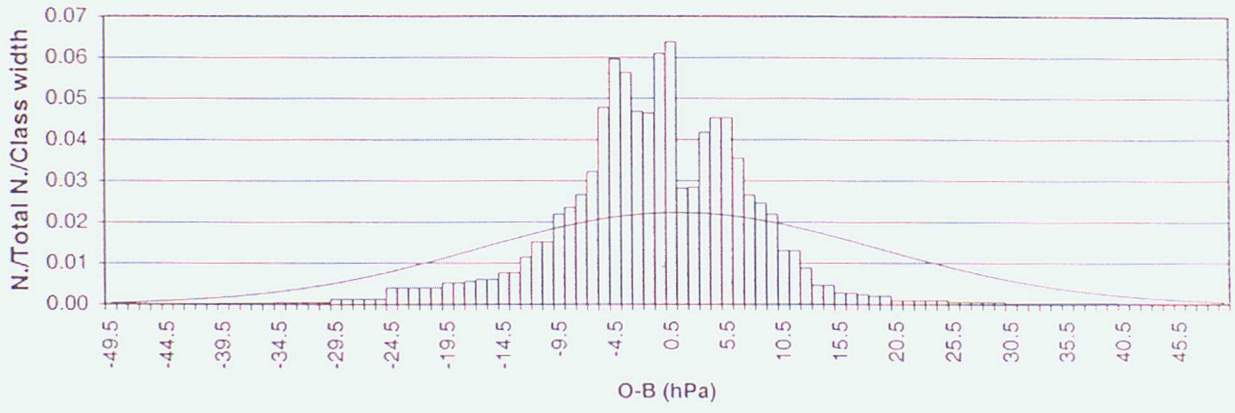


Figure 2a: Distribution of ship O-B pressure (hPa)
Period of data: Jan-June 2000 Data used: All observations



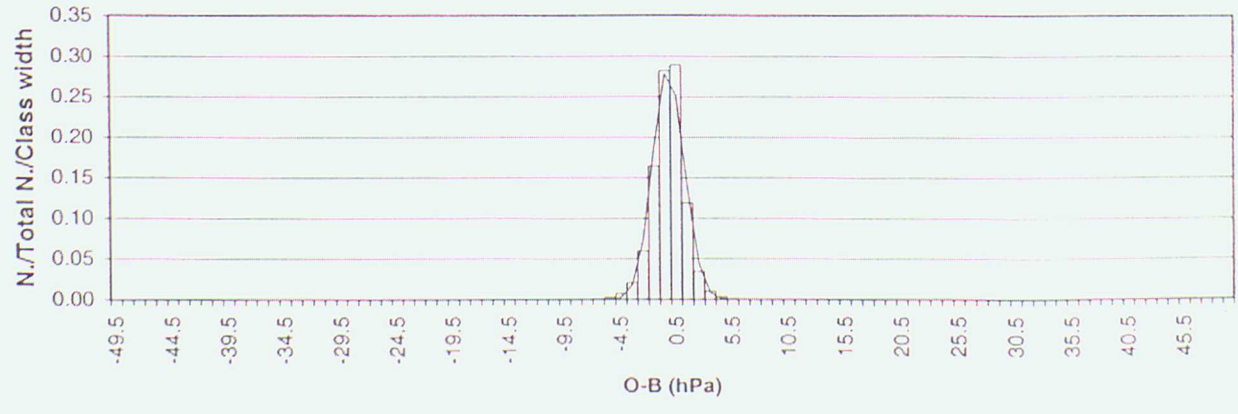
Mean O-B = -0.1 SD O-B = 4.0

Figure 2b: Distribution of ship O-B pressure (hPa)
Period of data: Jan-June 2000 Data used: Flagged observations



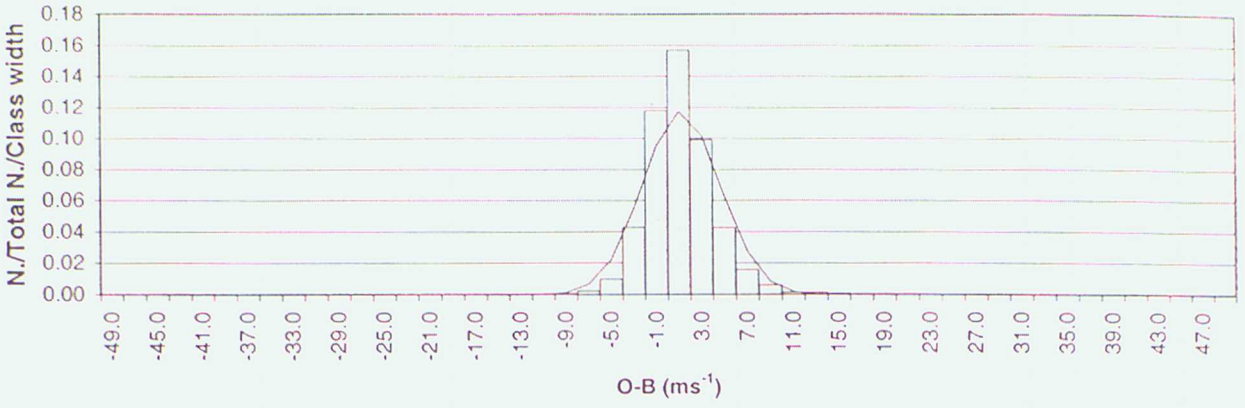
Mean O-B = 1.1 SD O-B = 17.9

Figure 2c: Distribution of ship O-B pressure (hPa)
Period of data: Jan-June 2000 Data used: Unflagged observations



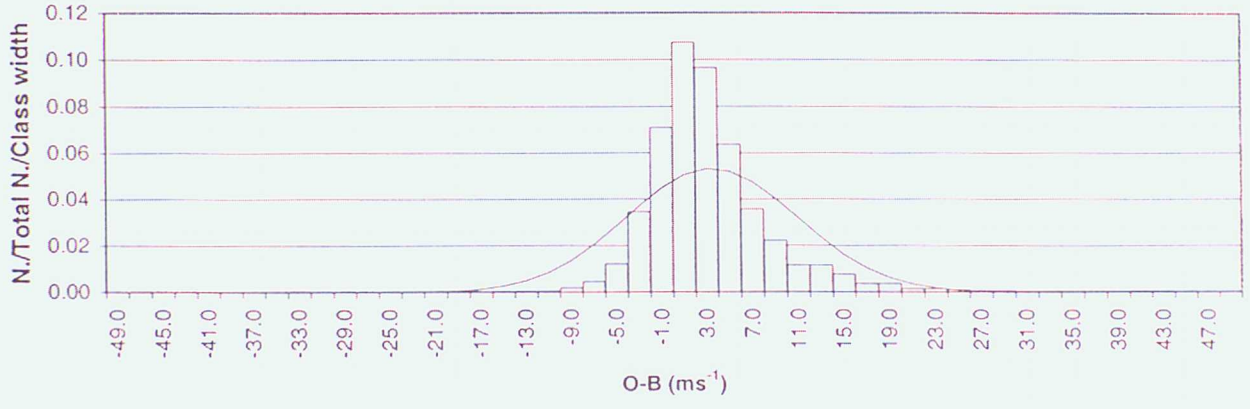
Mean O-B = -0.2 SD O-B = 1.4

Figure 2d: Distribution of ship O-B wind speed (ms^{-1})
Period of data: Jan-June 2000 Data used: All observations



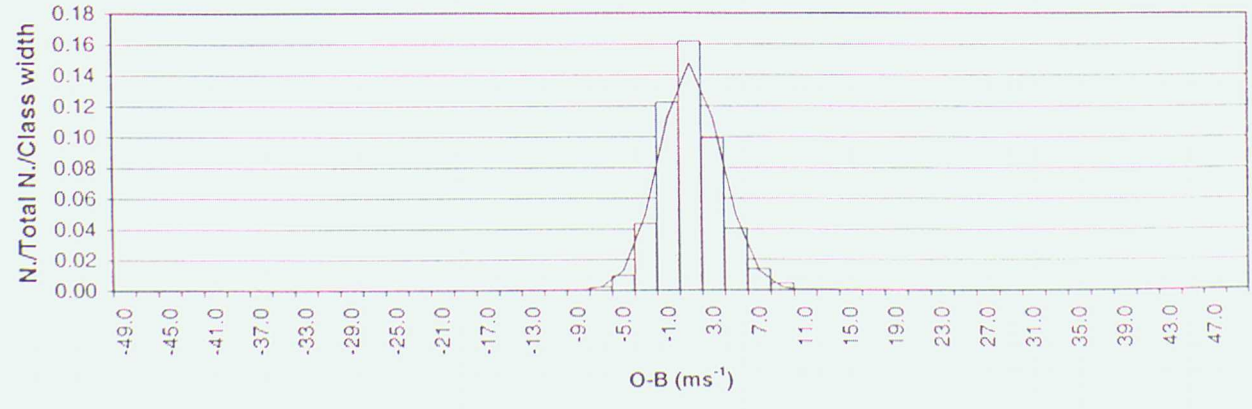
Mean O-B = 1.2 SD O-B = 3.4

Figure 2e: Distribution of ship O-B wind speed (ms^{-1})
Period of data: Jan-June 2000 Data used: Flagged observations



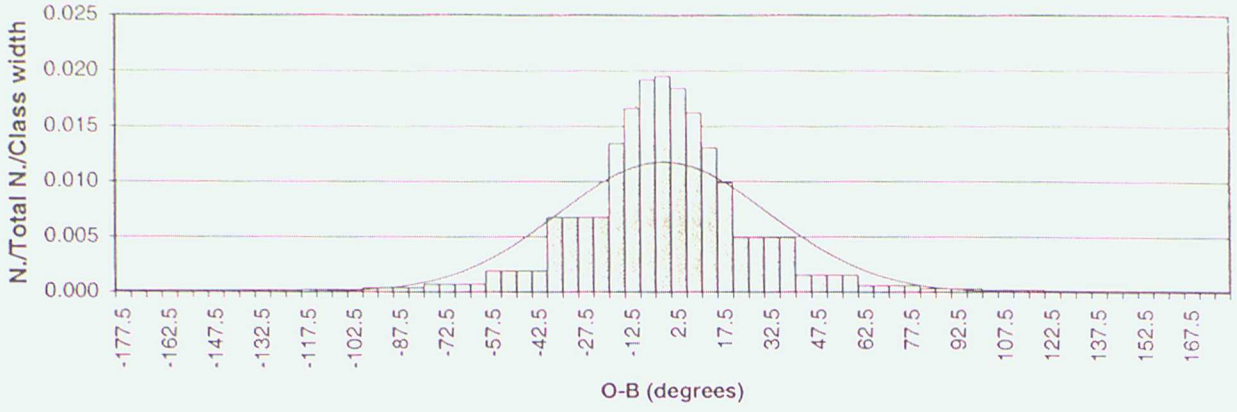
Mean O-B = 3.4 SD O-B = 7.5

Figure 2f: Distribution of ship O-B wind speed (ms^{-1})
Period of data: Jan-June 2000 Data used: Unflagged observations



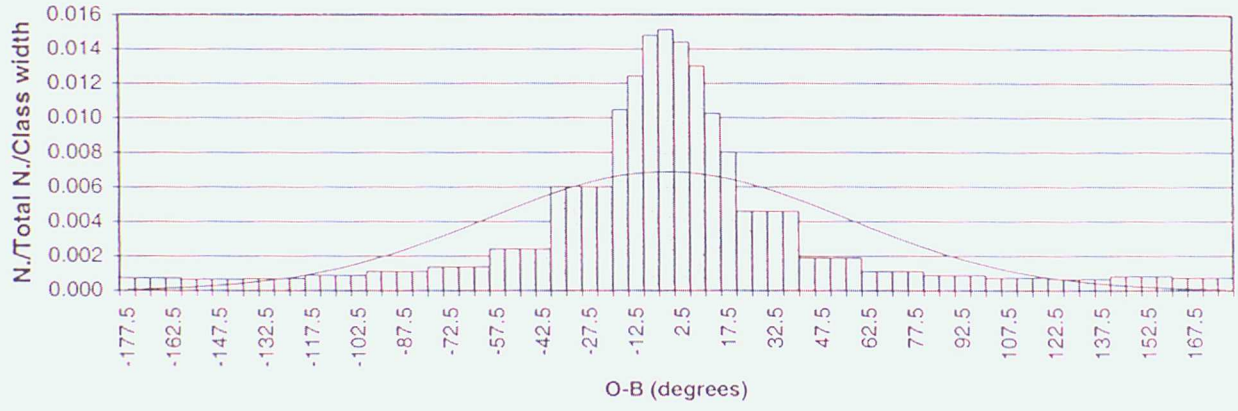
Mean O-B = 1.0 SD O-B = 2.7

Figure 2g: Distribution of ship O-B wind direction (degrees)
Period of data: Jan-June 2000 Data used: All observations



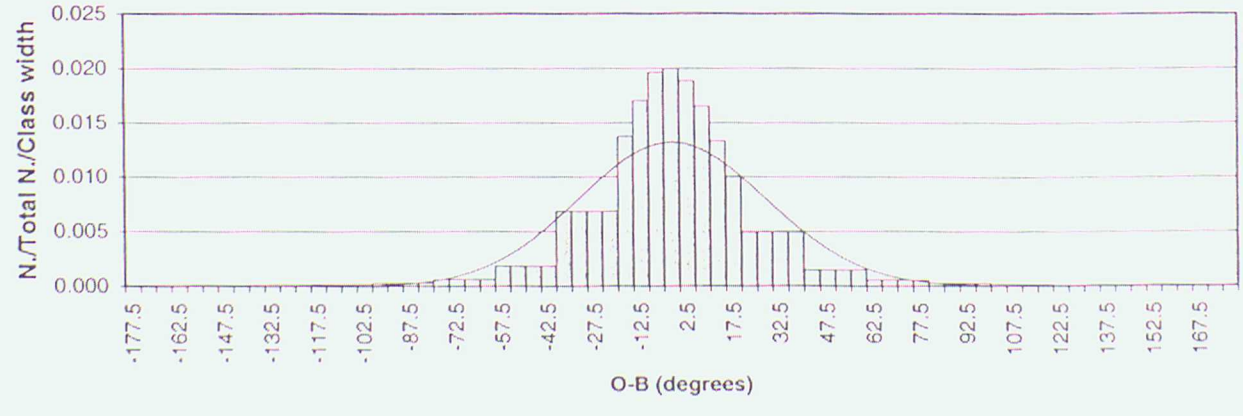
Mean O-B = -2.4 SD O-B = 33.9

Figure 2h: Distribution of ship O-B wind direction (degrees)
Period of data: Jan-June 2000 Data used: Flagged observations



Mean O-B = -2.6 SD O-B = 58.1

Figure 2i: Distribution of ship O-B wind direction (degrees)
Period of data: Jan-June 2000 Data used: Unflagged observations



Mean O-B = -2.4 SD O-B = 30.2

Figure 3: Bias of Ship O-B Pressure (hPa). Date:- January - June 2000
Only observations passing quality control used in statistics
Contours drawn to 10 degree boxes, if the number of observations is greater than 10
Shaded areas have a bias of magnitude greater than 0.5 hPa

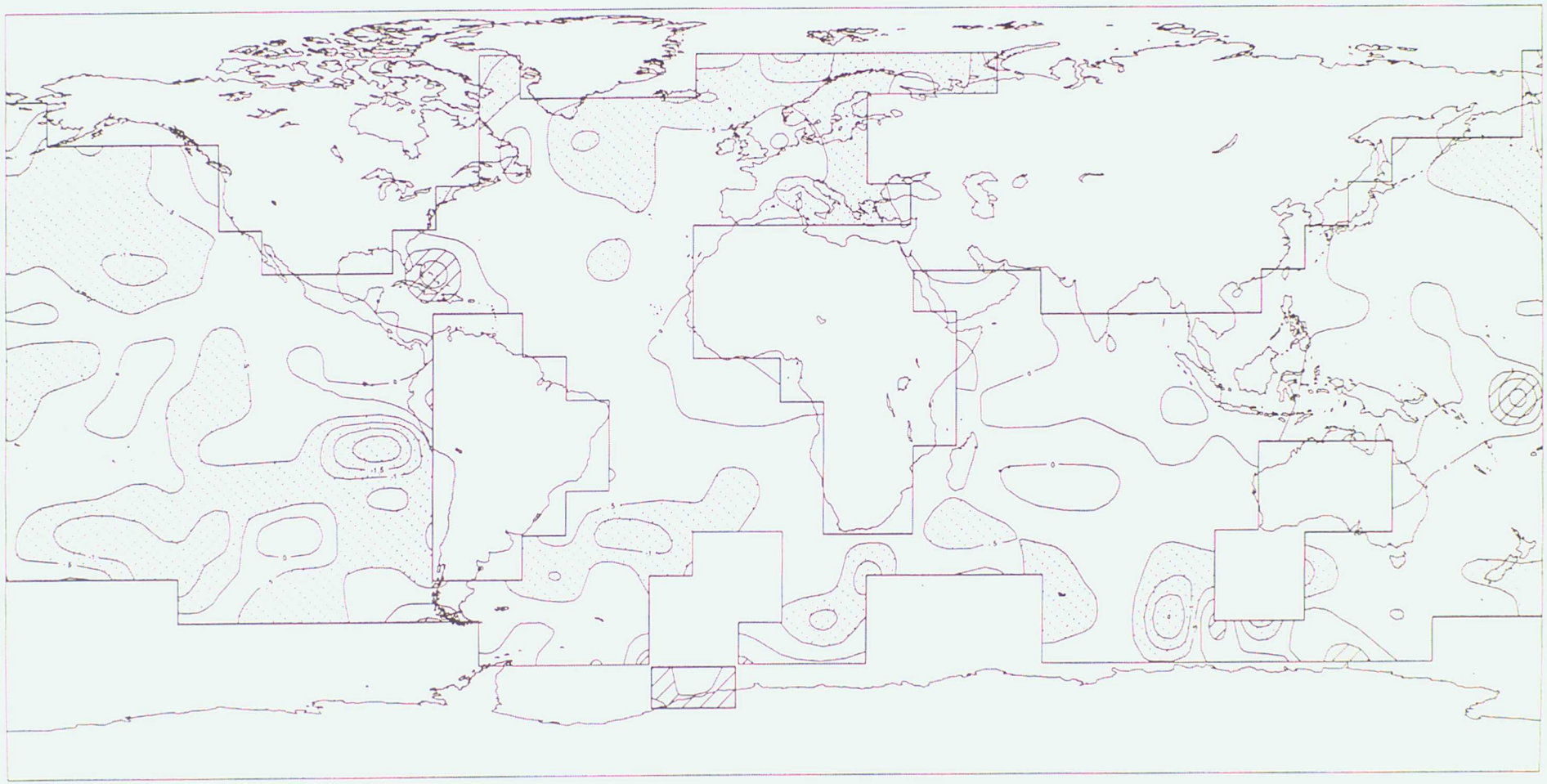


Figure 4: Standard Deviation of Ship O-B Pressure (hPa). Date:- January - June 2000
Only Observations passing quality control used in statistics
Contours drawn to 10 degree boxes, if the number of observations is greater than 10
Shaded areas have a standard deviation of greater than 2.0 hPa

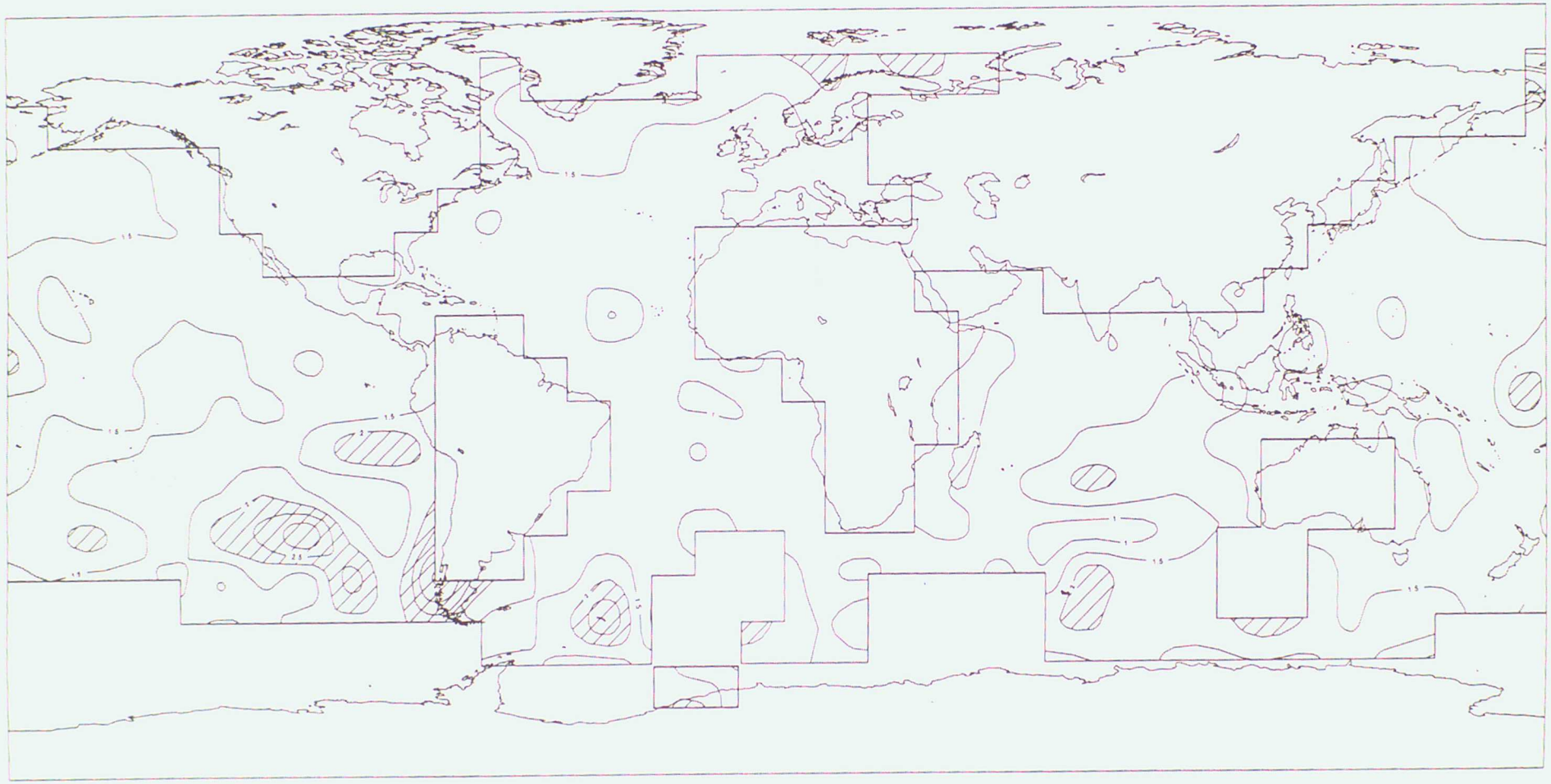


Figure 5:
Plot of the Number of Ship Pressure Observations. Date:- January - June 2000
Only observations passing quality control included

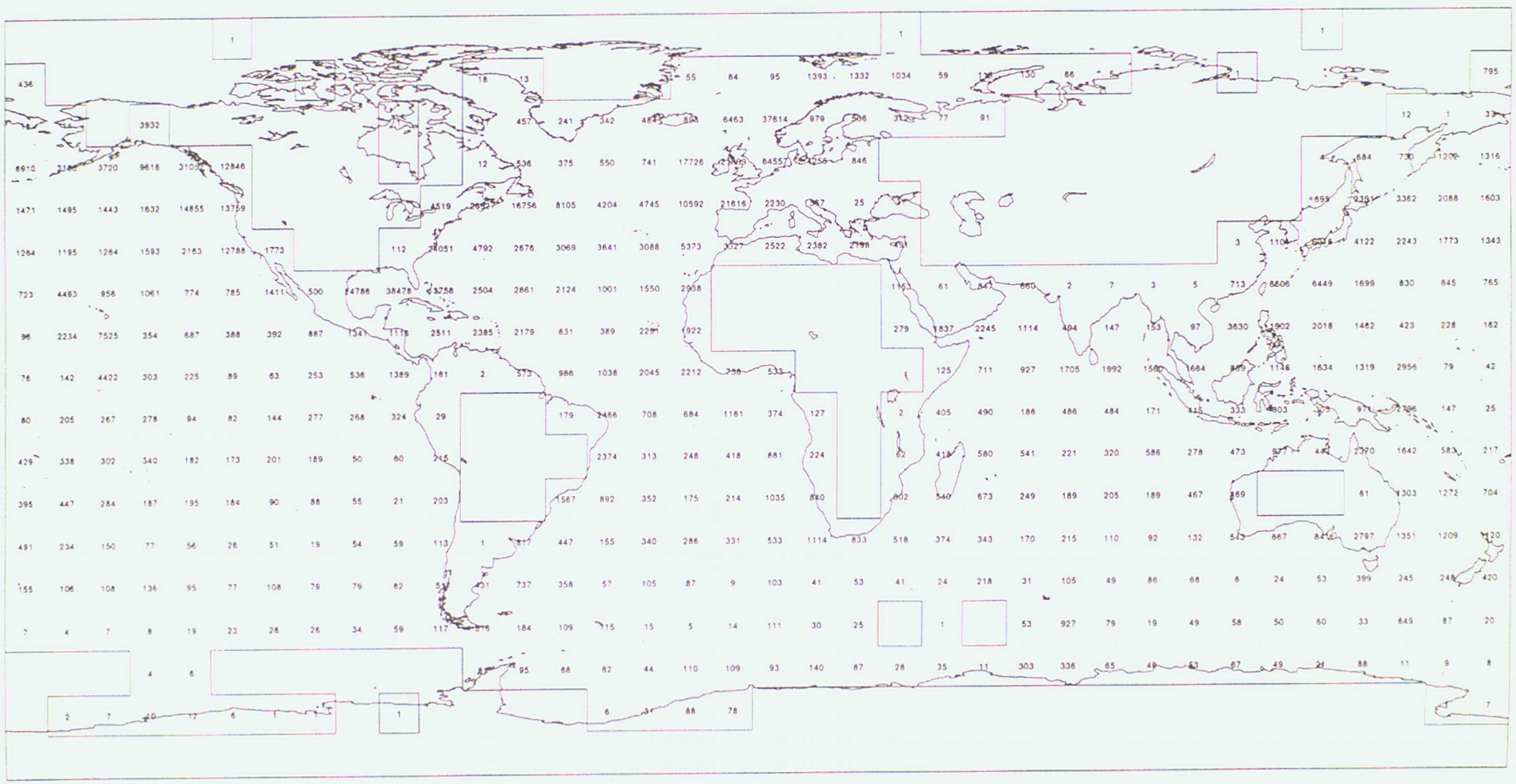


Figure 6: Bias of Ship O-B Wind Speed (ms-1). Date:- January - June 2000
Only observations passing quality control used in statistics
Contours drawn to 10 degree boxes, if the number of observations is greater than 10
Shaded areas have a bias of magnitude greater than 2.0 ms-1

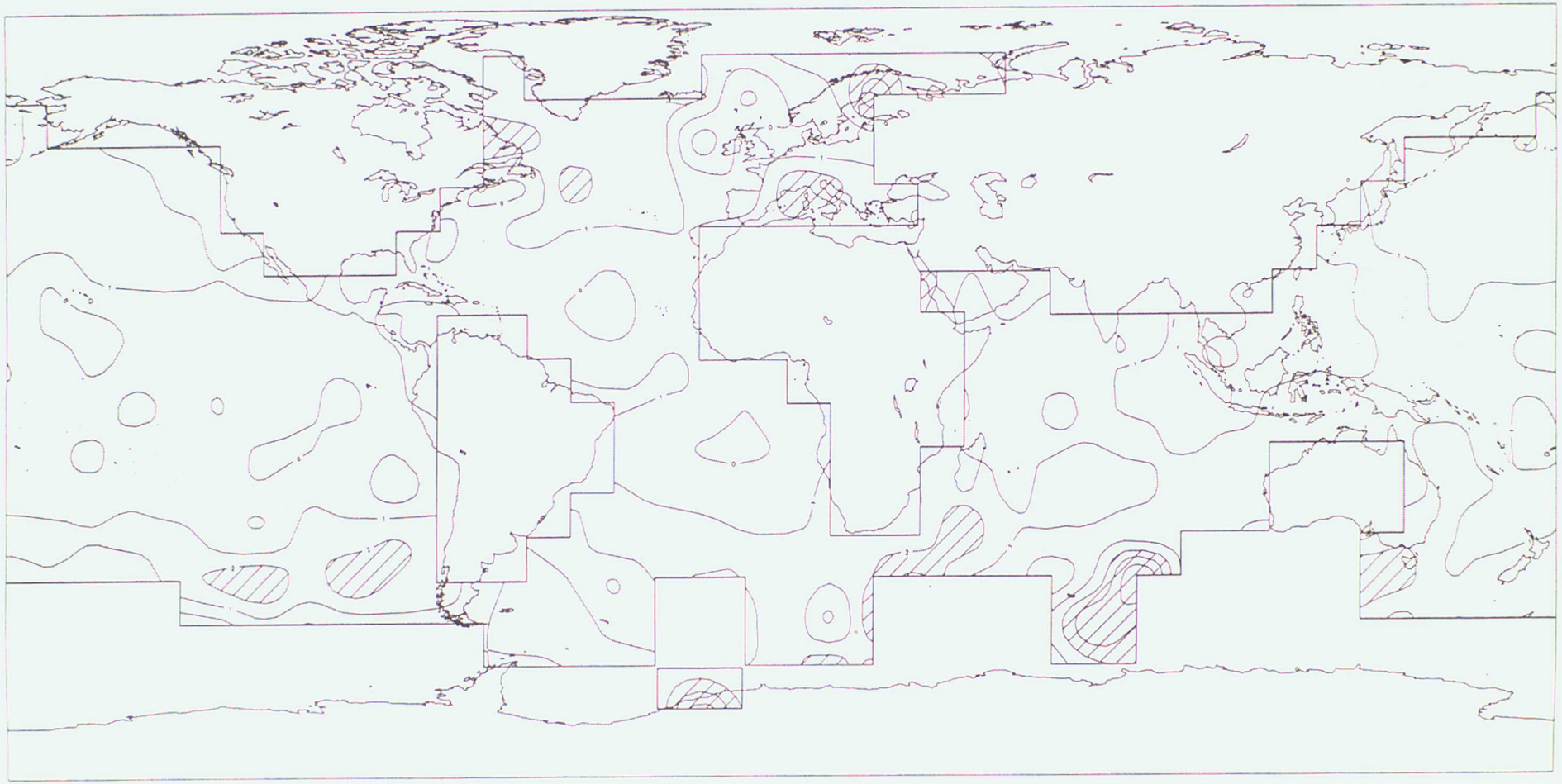


Figure 7: Standard Deviation of Ship O-B Wind Speed (ms-1). Date:- January - June 2000
Only Observations passing quality control used in statistics
Contours drawn to 10 degree boxes, if the number of observations is greater than 10
Shaded areas have a standard deviation of greater than 4.0 ms-1

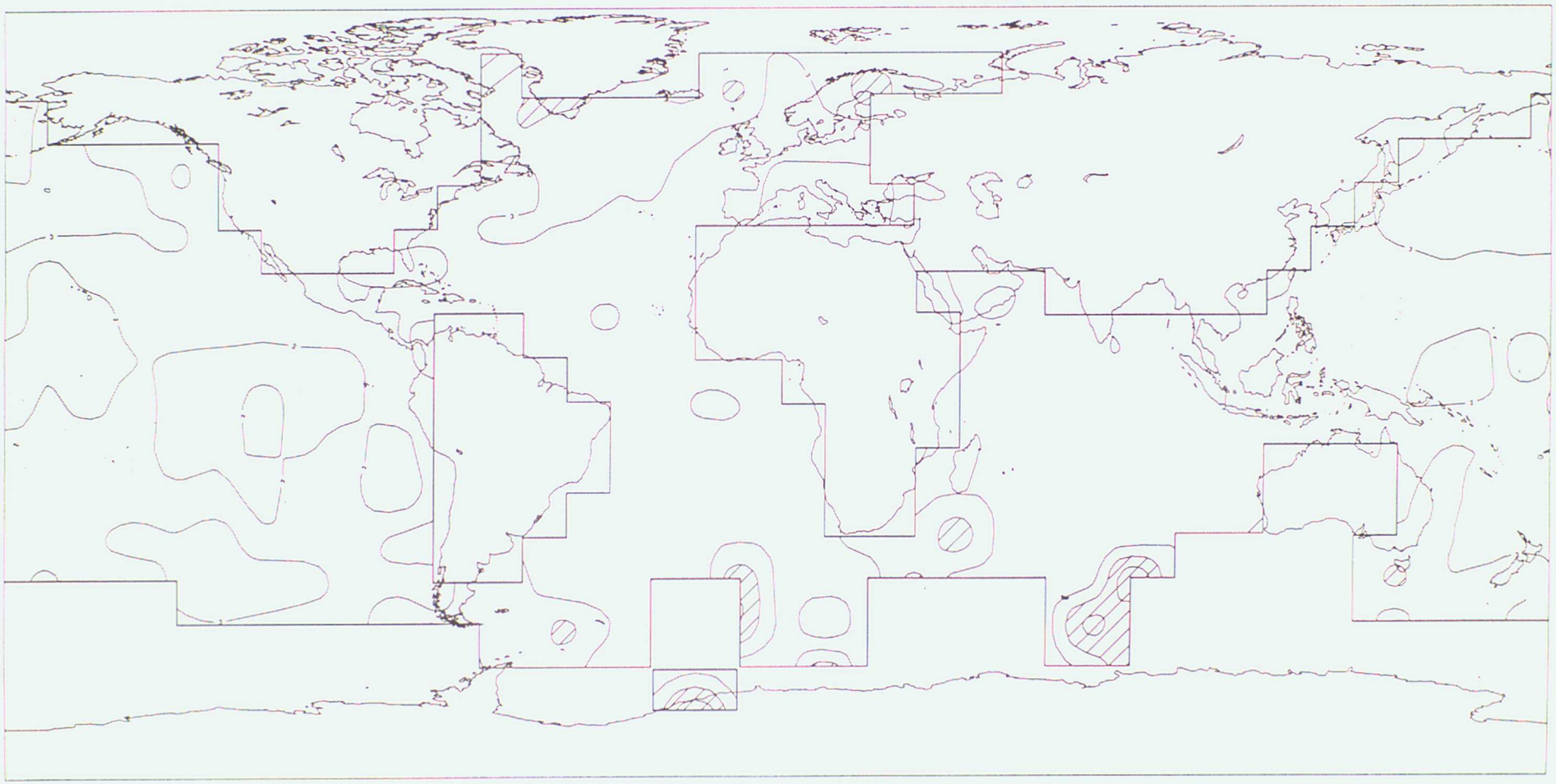


Figure 8:
Plot of the Number of Ship Wind Speed Observations. Date:- January - June 2000
Only observations passing quality control included

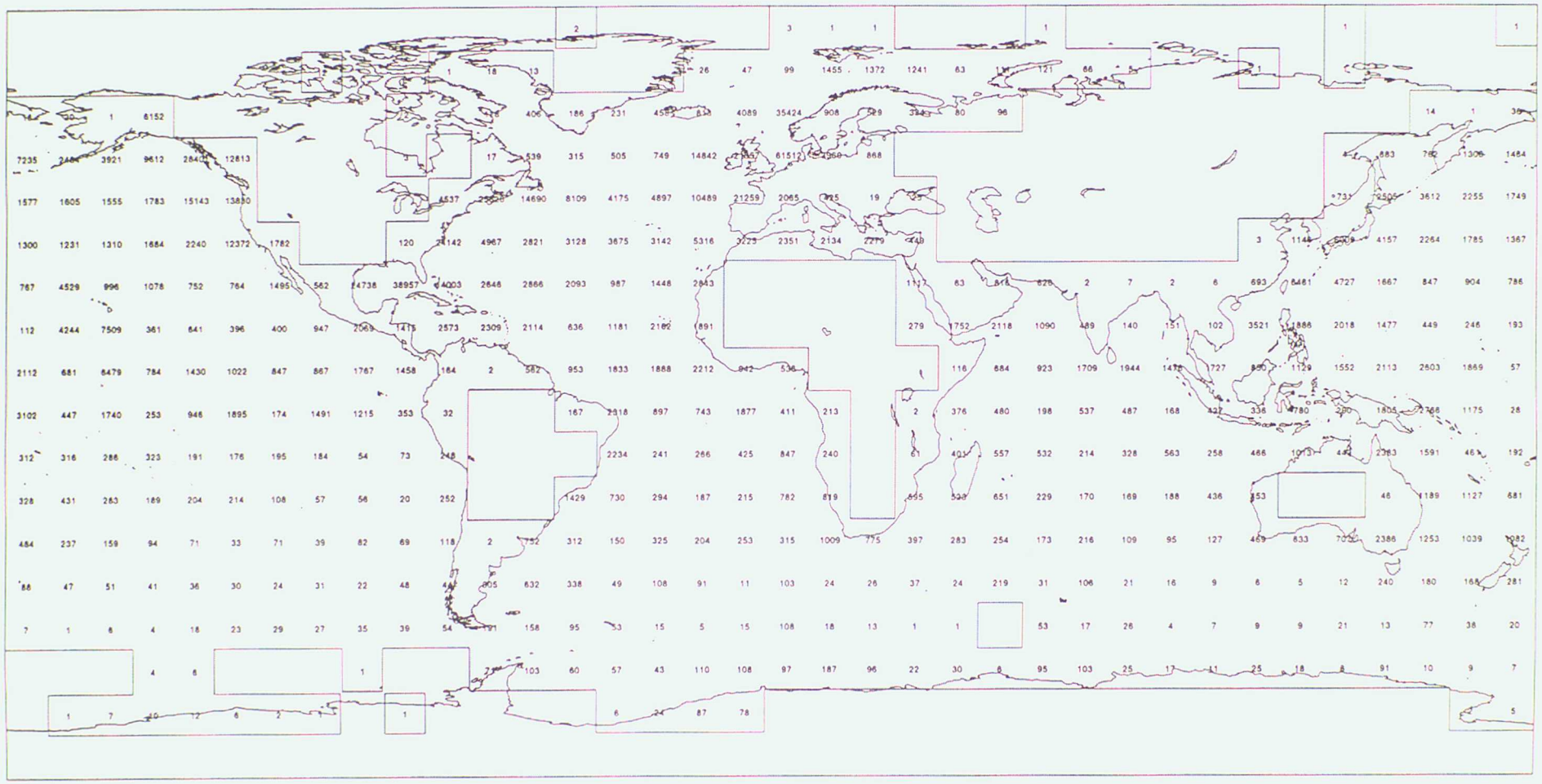


Figure 9: Bias of Ship O-B Wind Direction (degrees). Date:- January - June 2000
Only observations passing quality control used in statistics
Contours drawn to 10 degree boxes, if the number of observations is greater than 10
Shaded areas have a bias of magnitude greater than 10 degrees

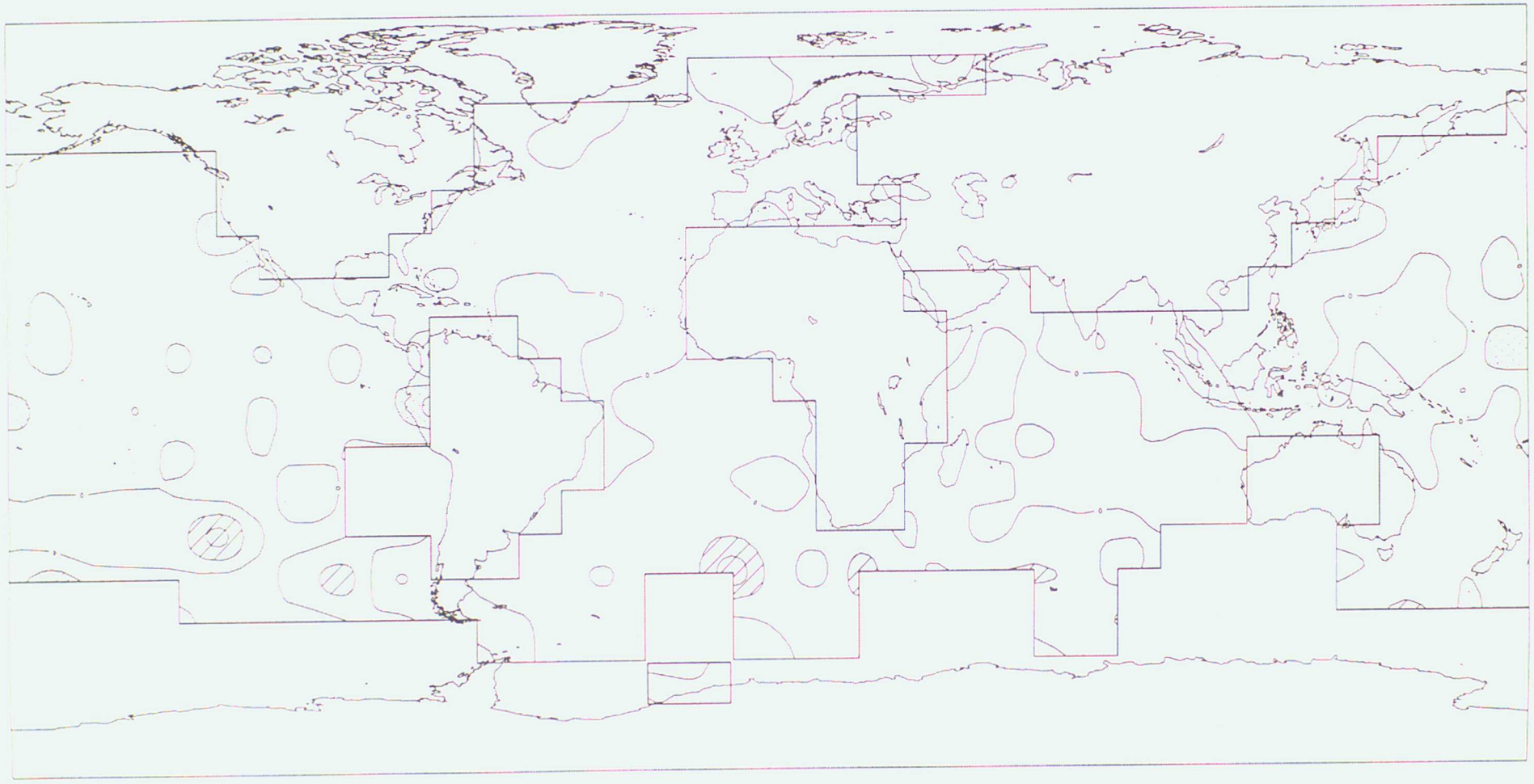


Figure 10: Standard Deviation of Ship O-B Wind Direction (degrees). Date:- January - June 2000
Only Observations passing quality control used in statistics
Contours drawn to 10 degree boxes, if the number of observations is greater than 10
Shaded areas have a standard deviation of greater than 40 degrees

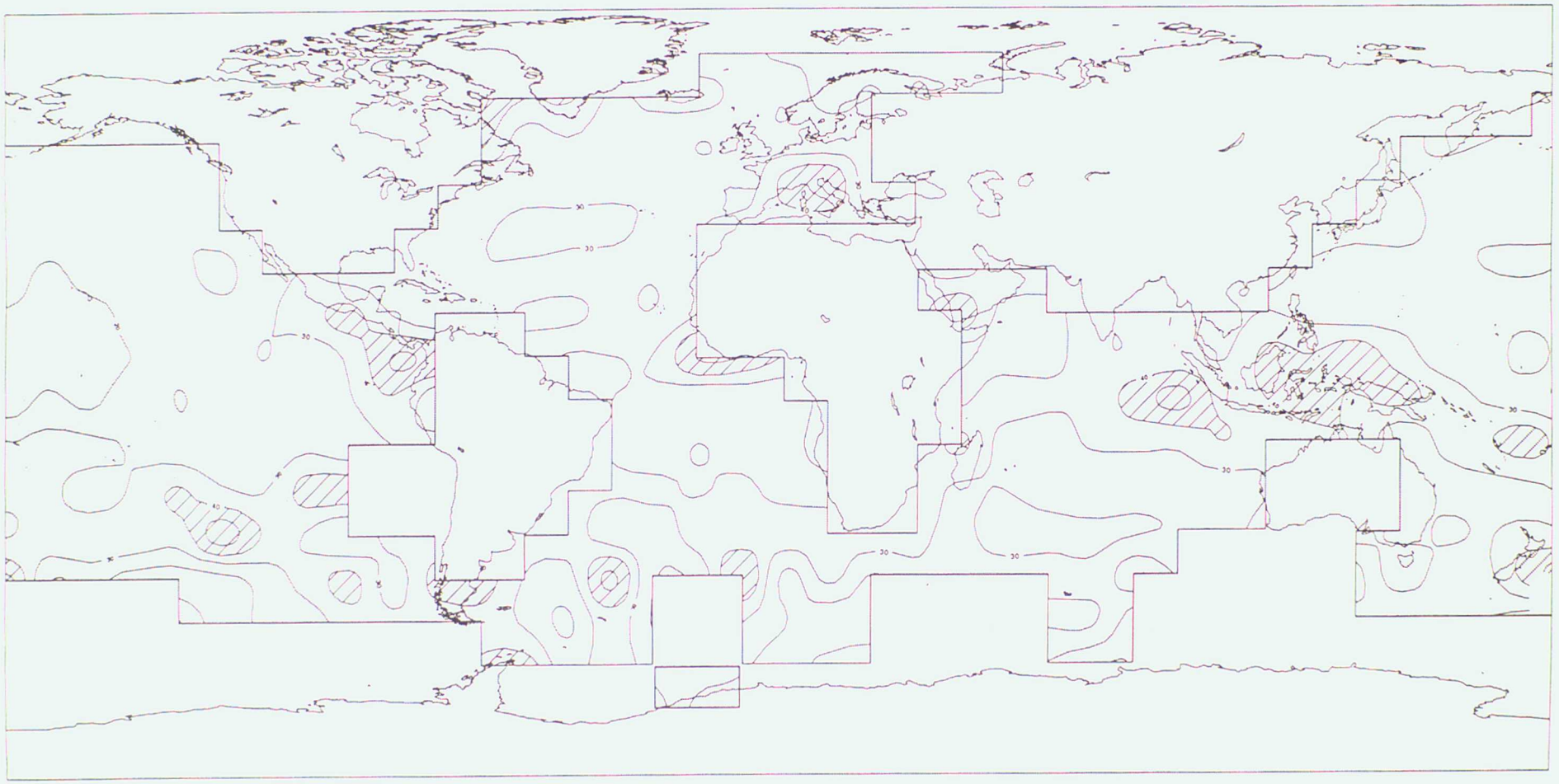
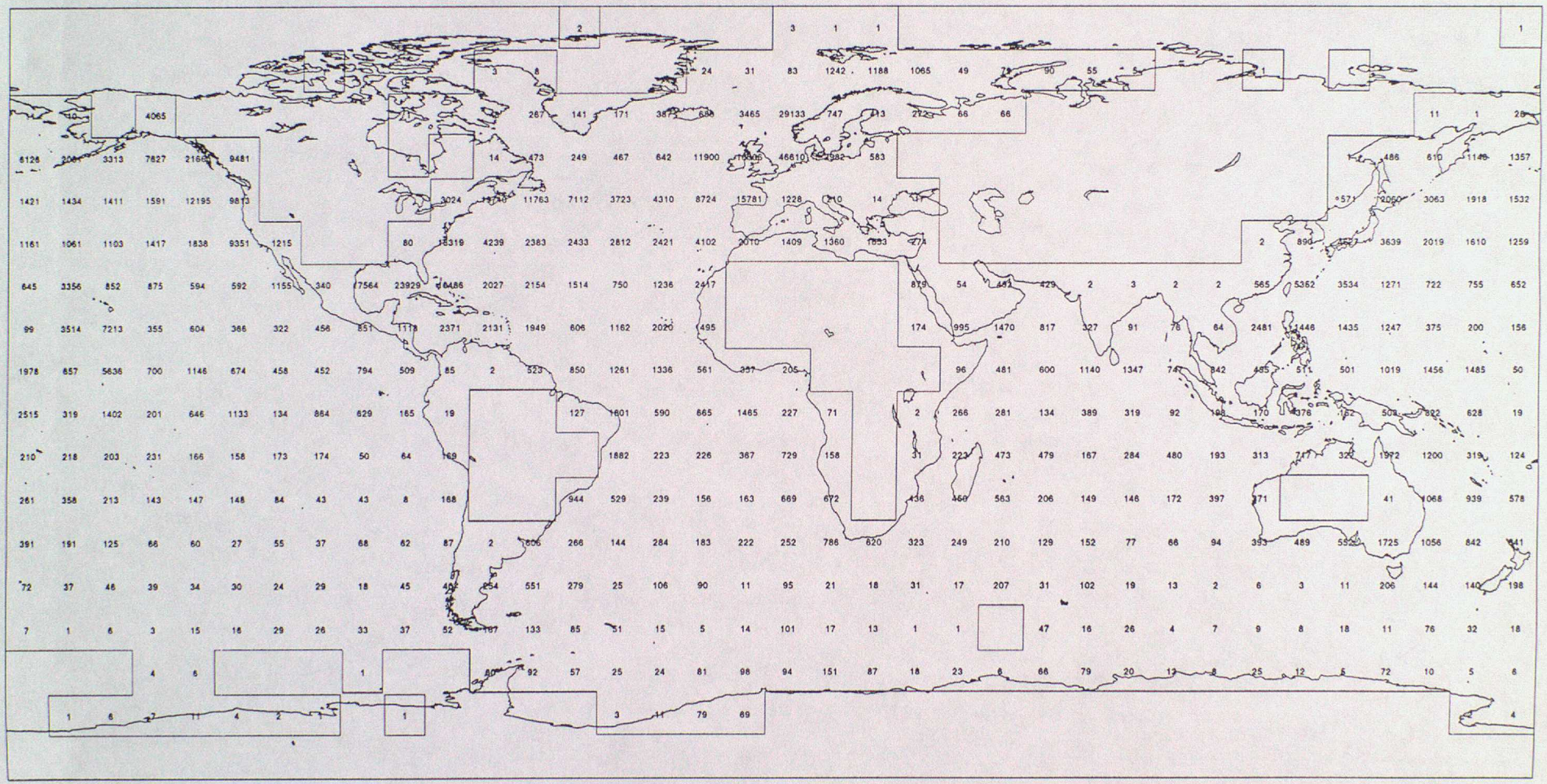
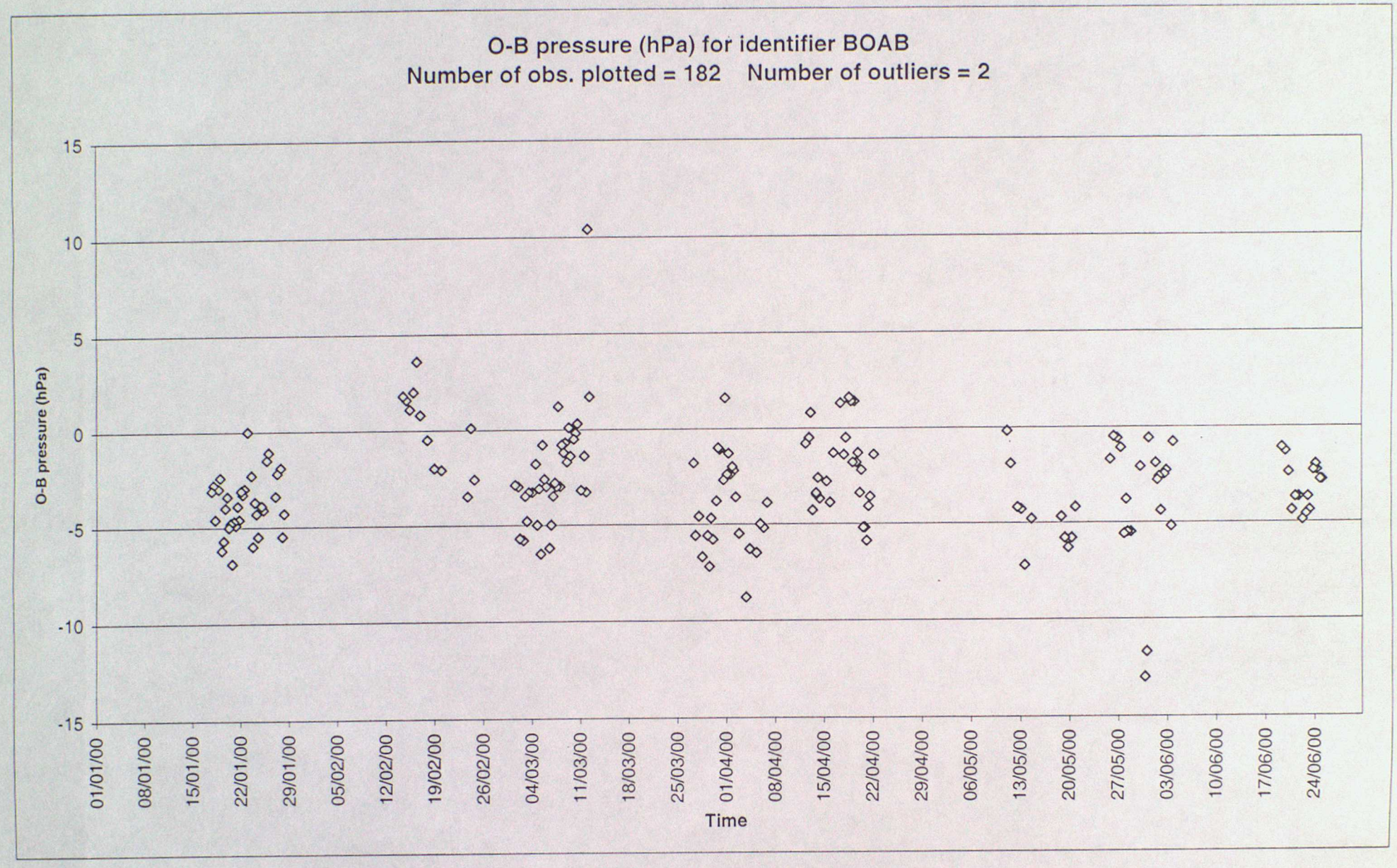


Figure 11:
Plot of the Number of Ship Wind Direction Observations. Date:- January - June 2000
Only observations passing quality control included




O-B pressure (hPa) for identifier BOAB
Number of obs. plotted = 182 Number of outliers = 2
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier C6FE5
Number of obs. plotted = 72 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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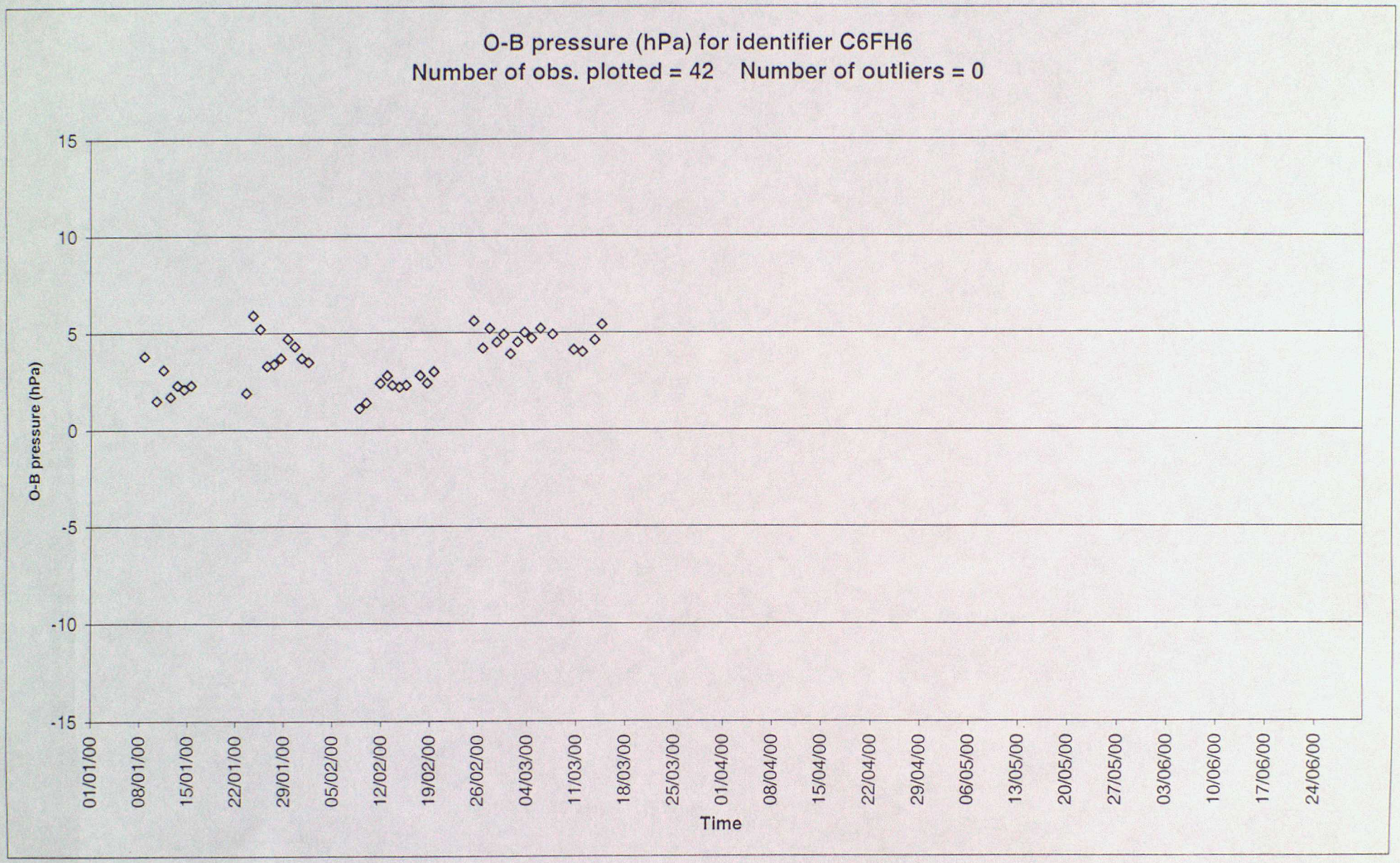
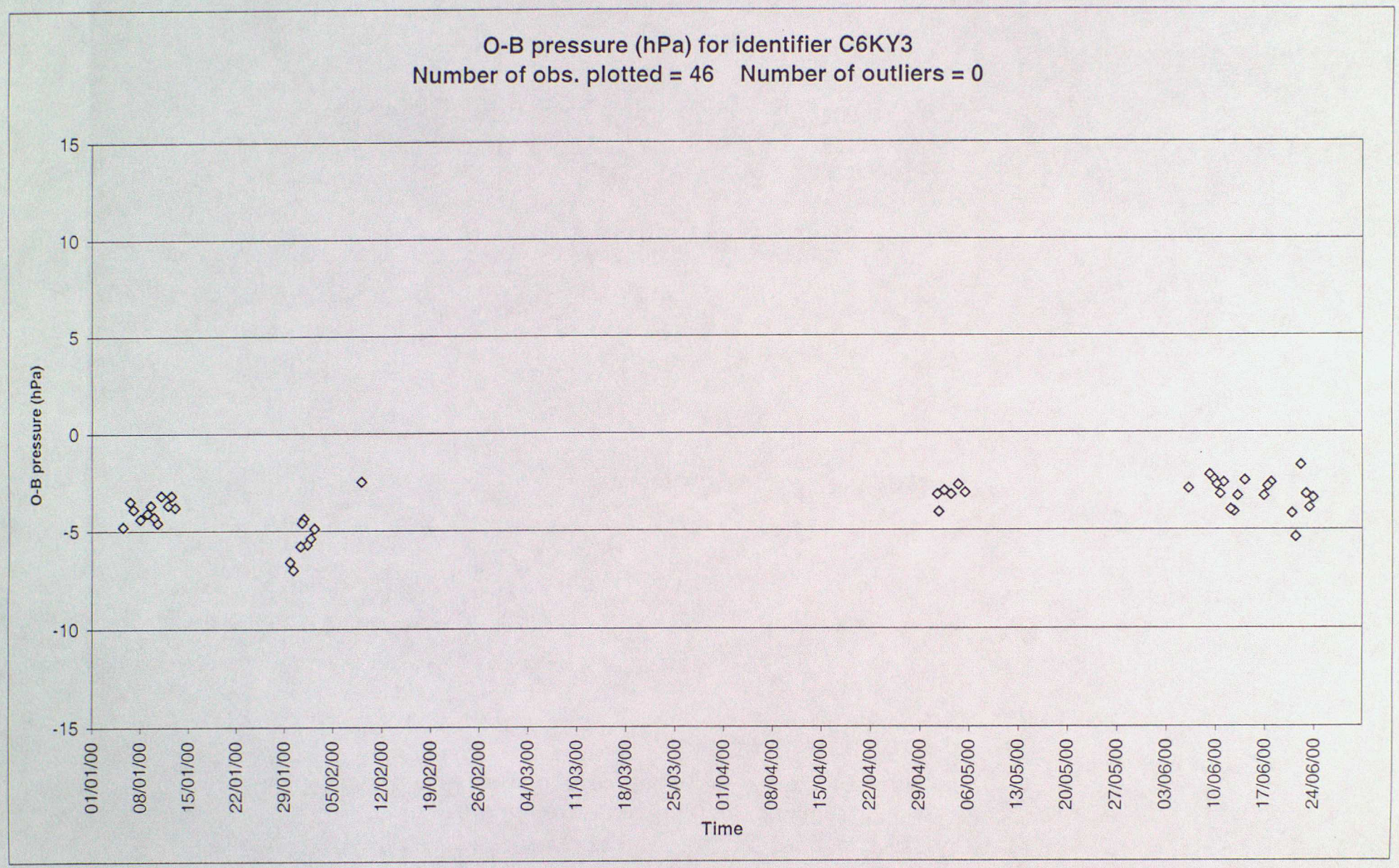
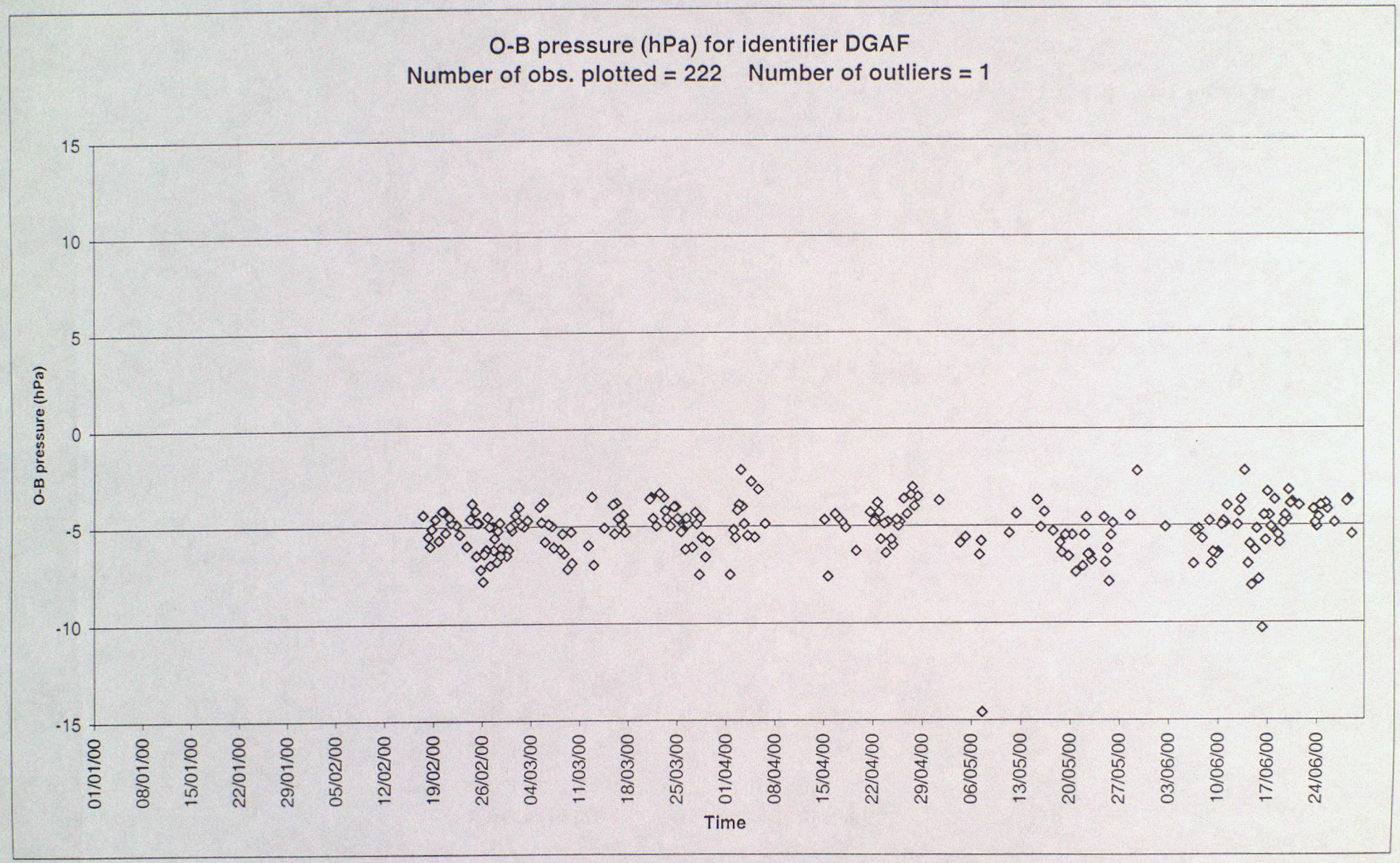
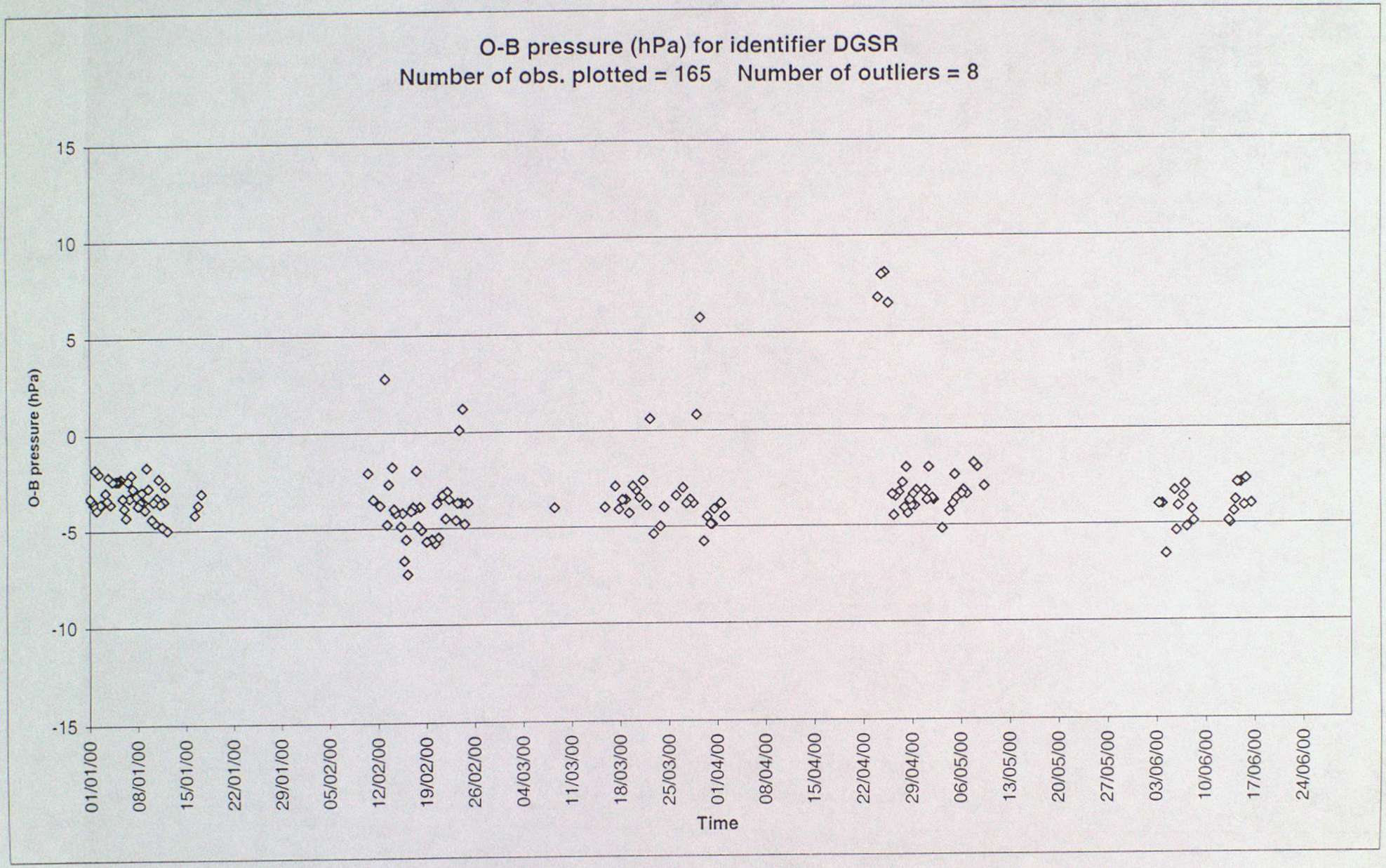
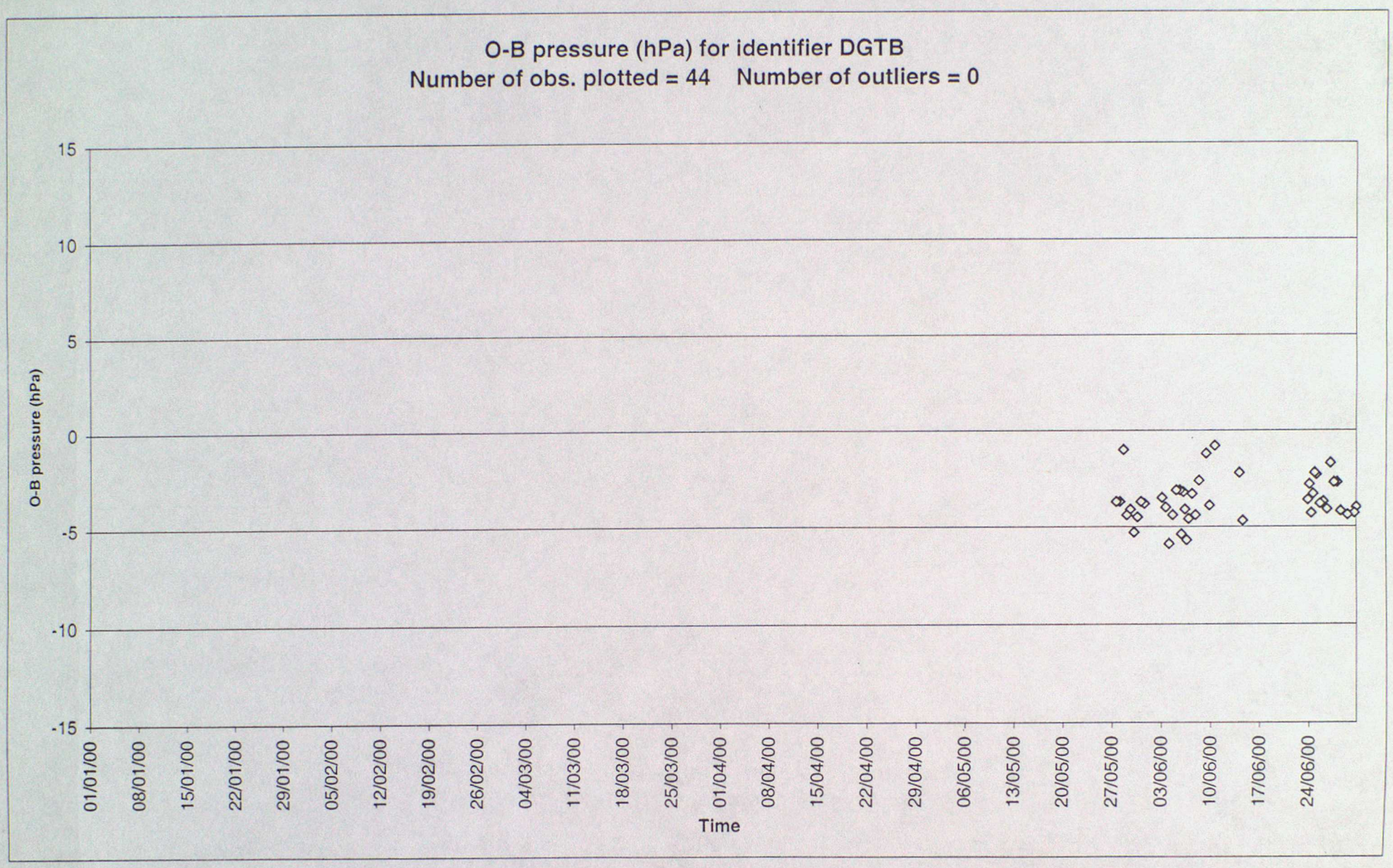
17/06/00
24/06/00


O-B pressure (hPa) for identifier C6FH6
Number of obs. plotted = 42 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier C6KY3
Number of obs. plotted = 46 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier DGAF
Number of obs. plotted = 222 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier DGSR
Number of obs. plotted = 165 Number of outliers = 8
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier DGTB
Number of obs. plotted = 44 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier ELED8
Number of obs. plotted = 53 Number of outliers = 2
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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27/05/00
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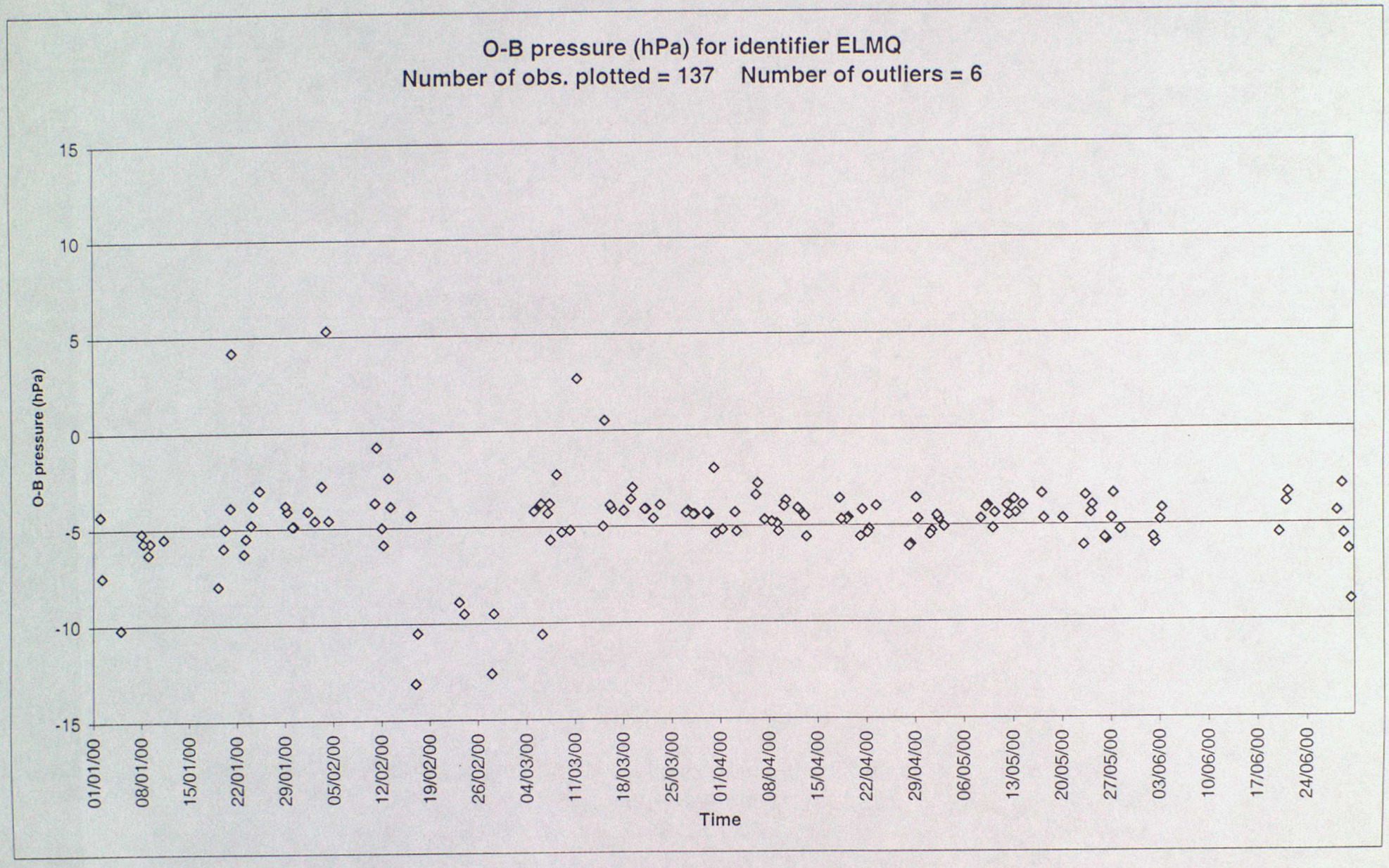
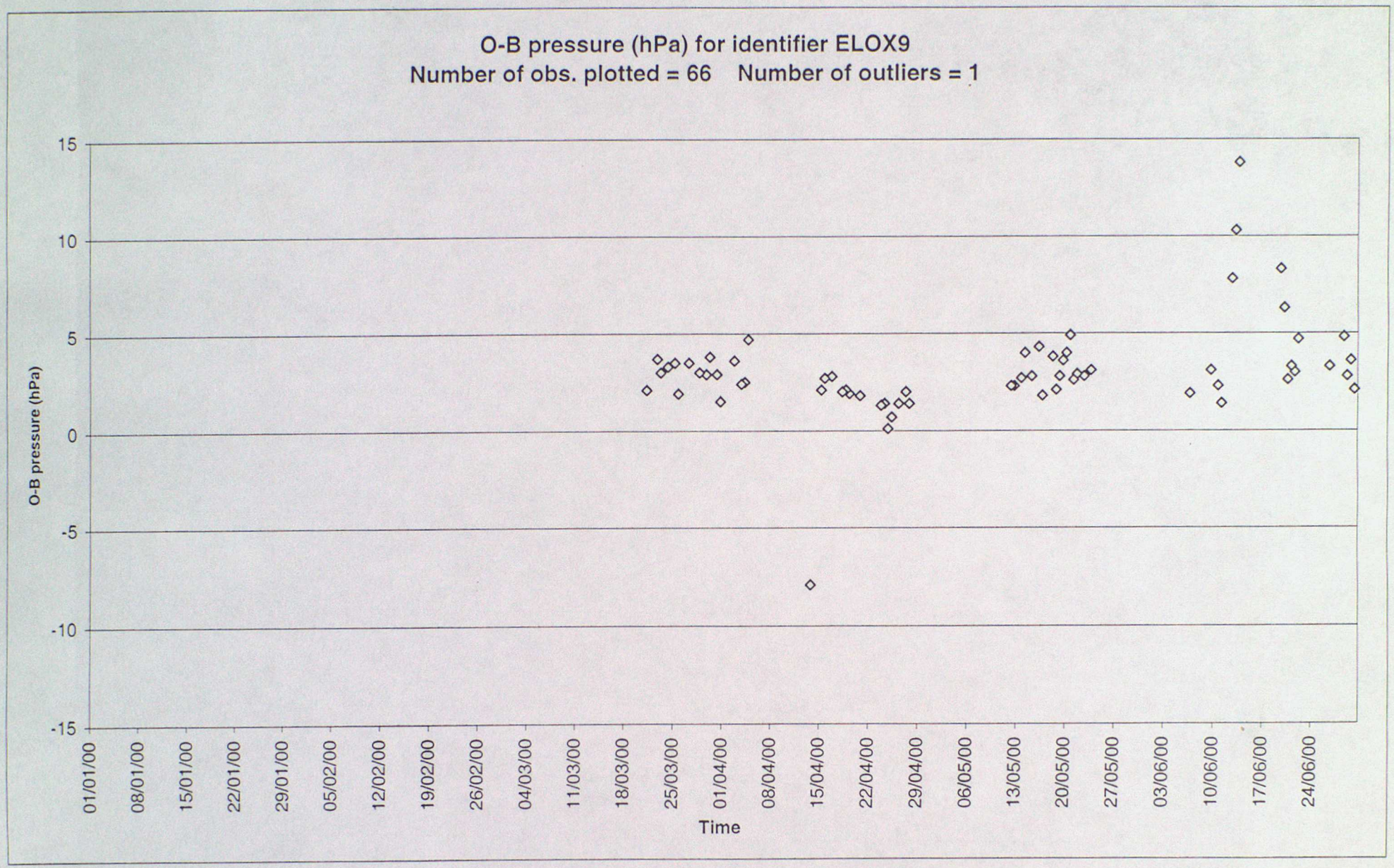
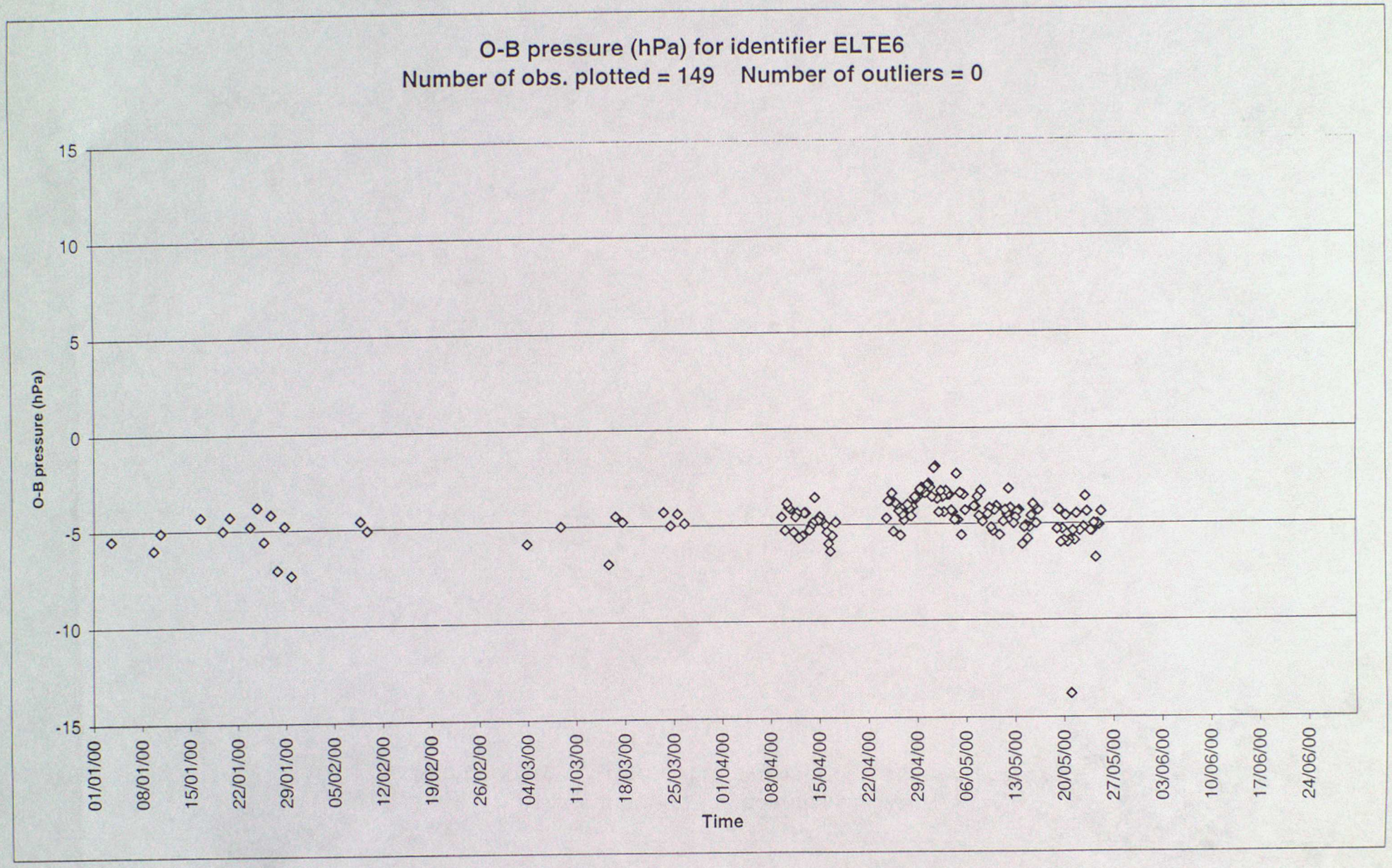
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier ELMQ
Number of obs. plotted = 137 Number of outliers = 6
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier ELOX9
Number of obs. plotted = 66 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier ELTE6
Number of obs. plotted = 149 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier ELUB5
Number of obs. plotted = 147 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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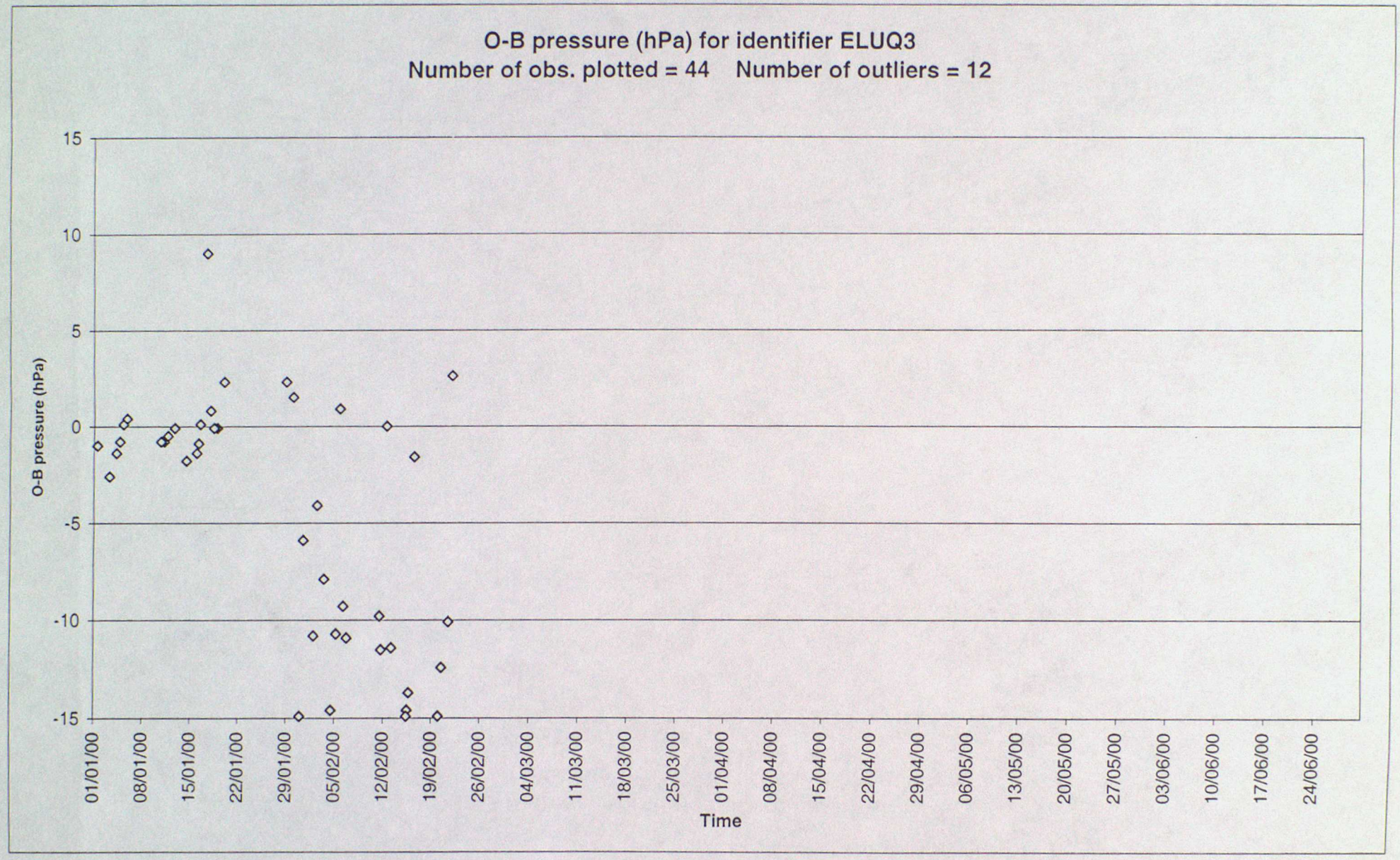
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier ELUQ3
Number of obs. plotted = 44 Number of outliers = 12
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier ELVJ9
Number of obs. plotted = 346 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier ELVY8
Number of obs. plotted = 193 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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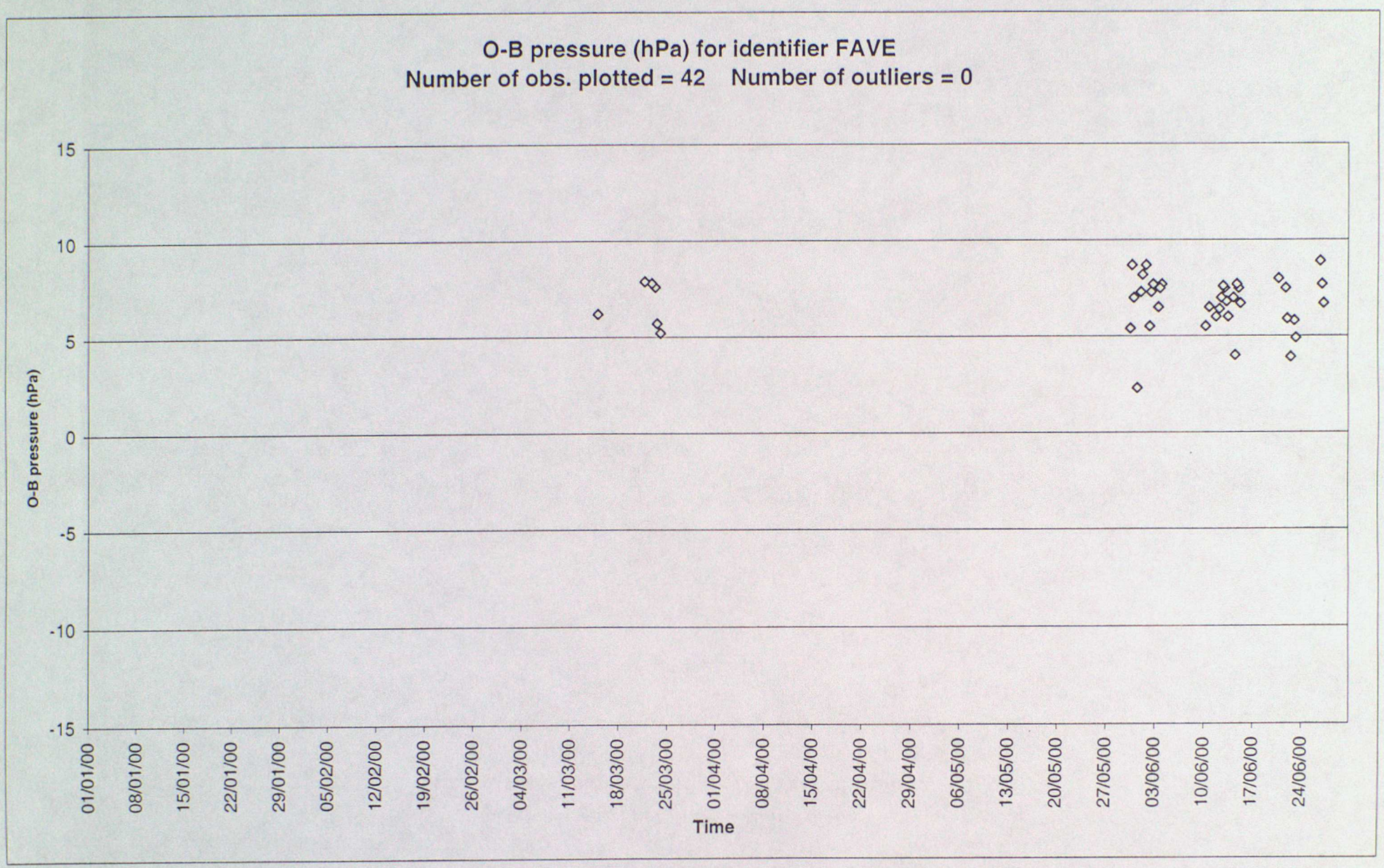
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier FAVE
Number of obs. plotted = 42 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier FNTS
Number of obs. plotted = 195 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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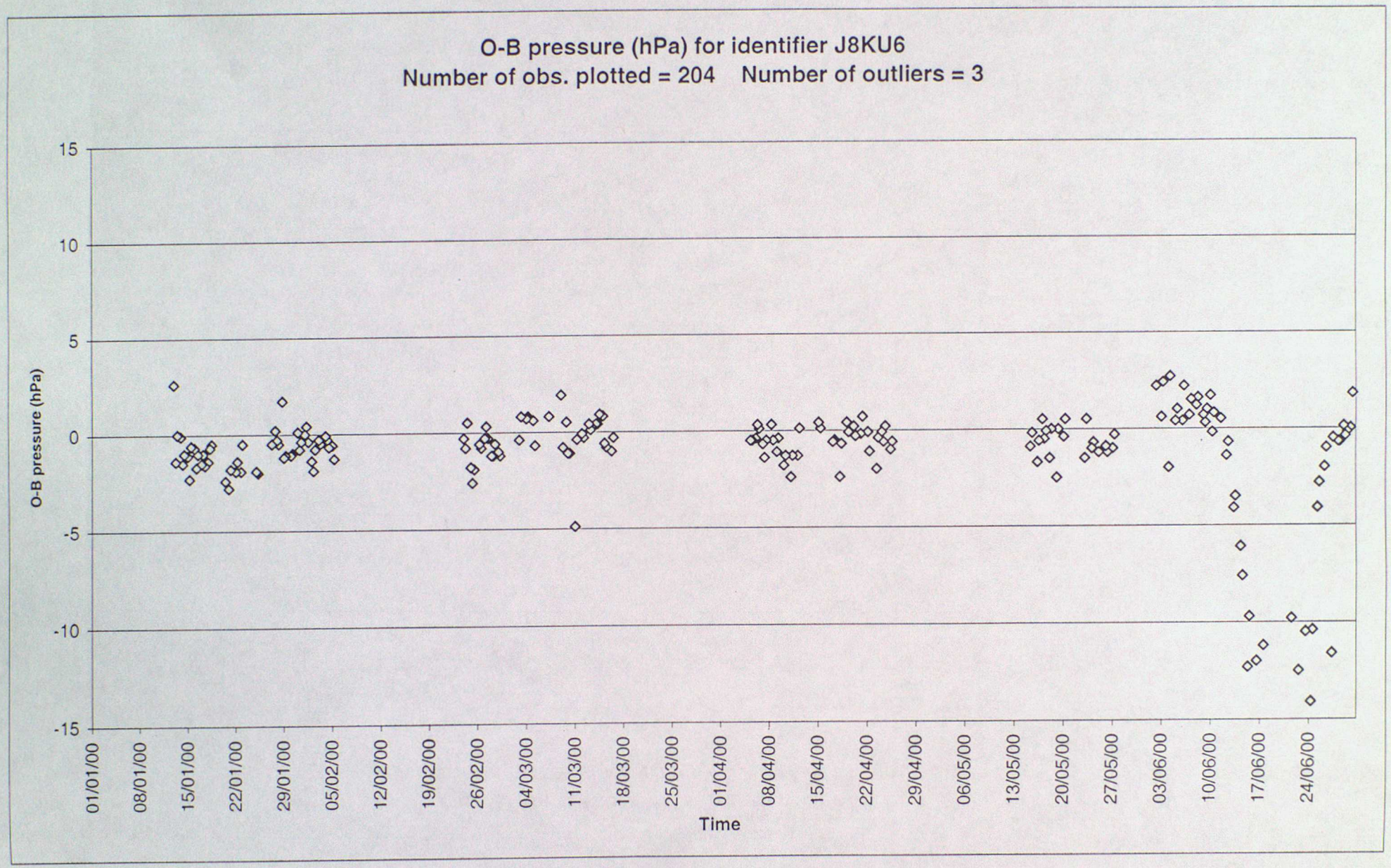
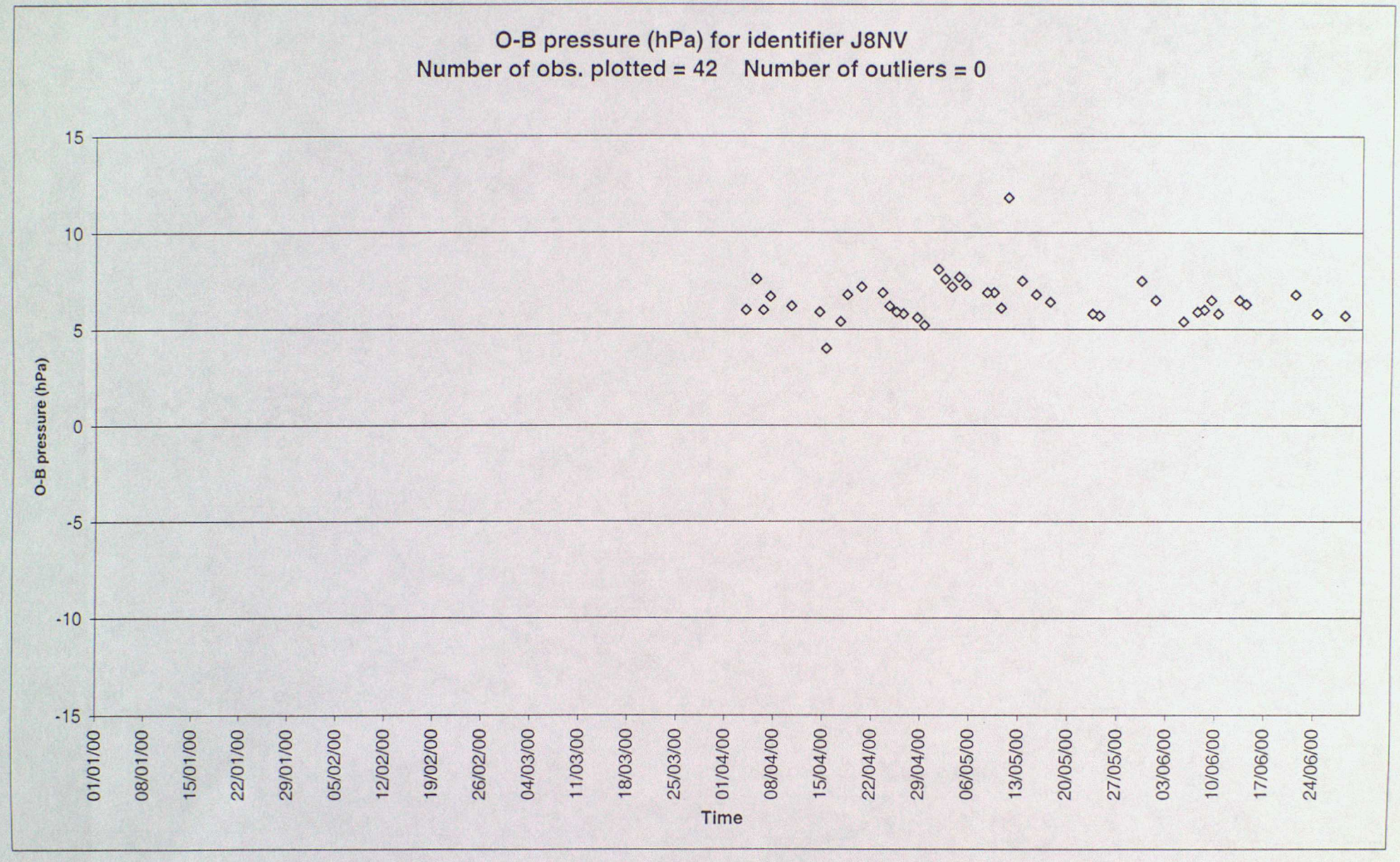
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier J8KU6
Number of obs. plotted = 204 Number of outliers = 3
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier J8NV
Number of obs. plotted = 42 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier KHLN
Number of obs. plotted = 81 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier KRLZ
Number of obs. plotted = 216 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier KSBG
Number of obs. plotted = 58 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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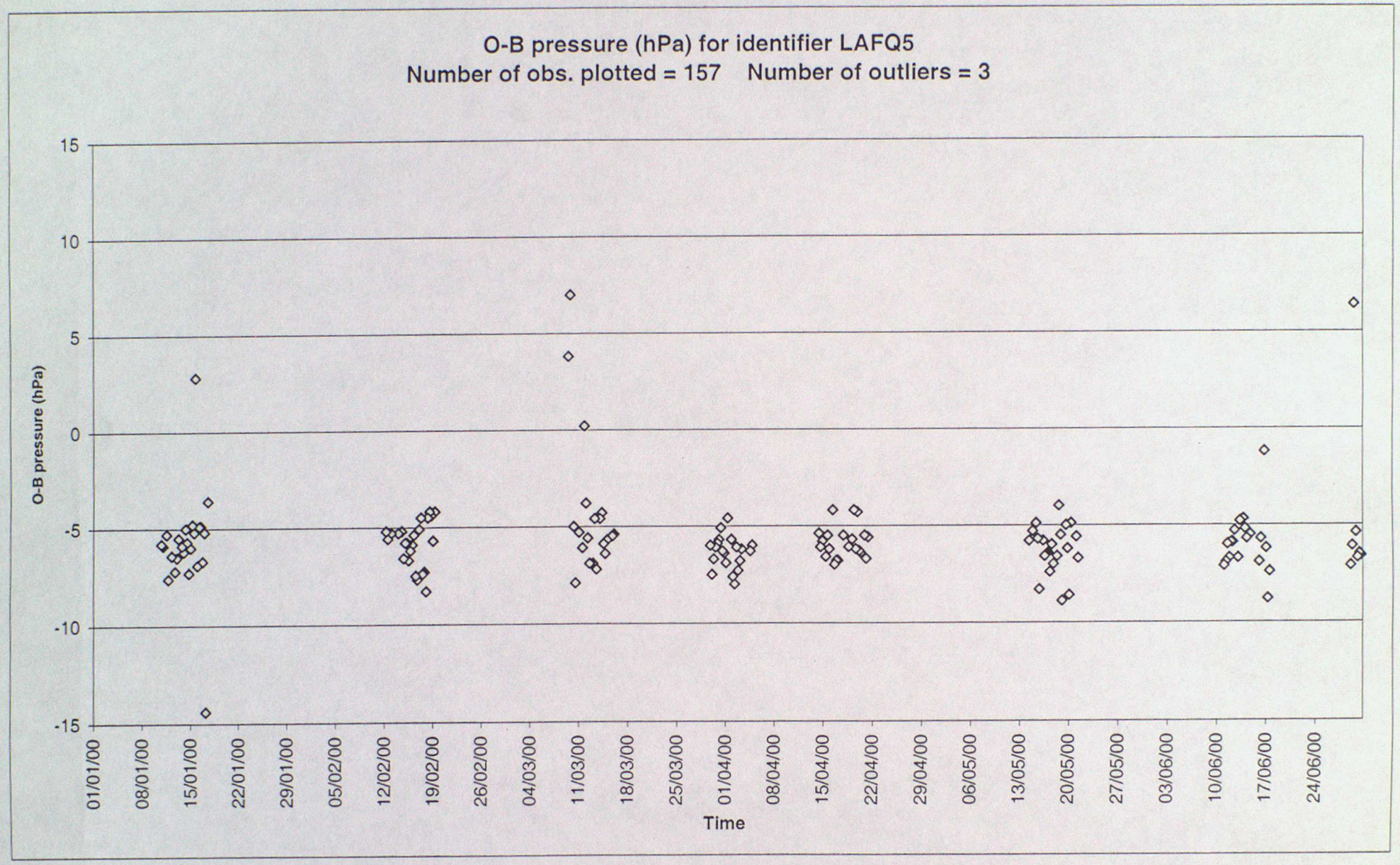
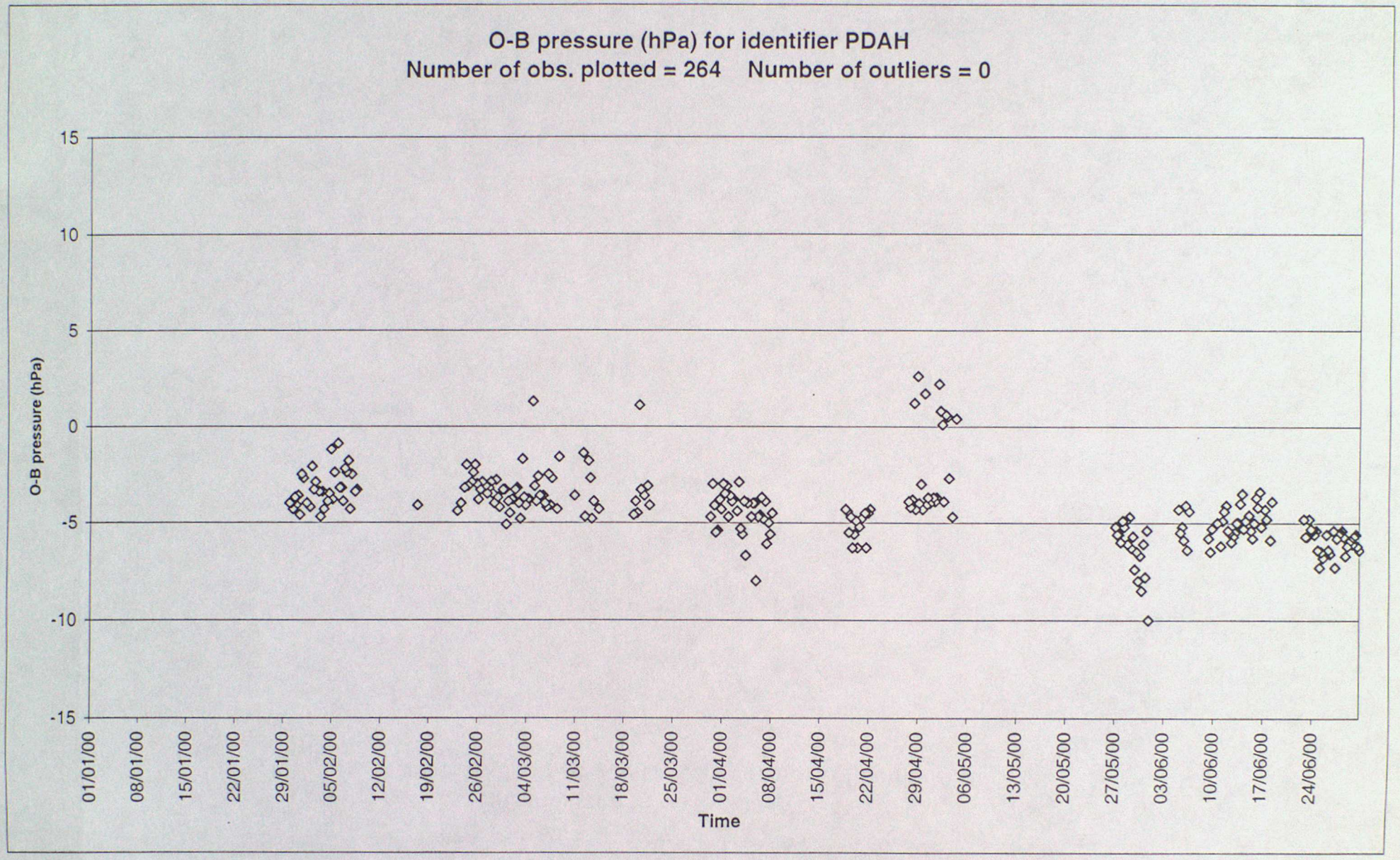
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier LAFQ5
Number of obs. plotted = 157 Number of outliers = 3
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier MXAR9
Number of obs. plotted = 189 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier NKJU
Number of obs. plotted = 75 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier PCCQ
Number of obs. plotted = 123 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier PDAH
Number of obs. plotted = 264 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier P3GB4
Number of obs. plotted = 146 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier P3NK5
Number of obs. plotted = 86 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier P3NL5
Number of obs. plotted = 43 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier P3YR5
Number of obs. plotted = 221 Number of outliers = 6
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier P3YS5
Number of obs. plotted = 435 Number of outliers = 3
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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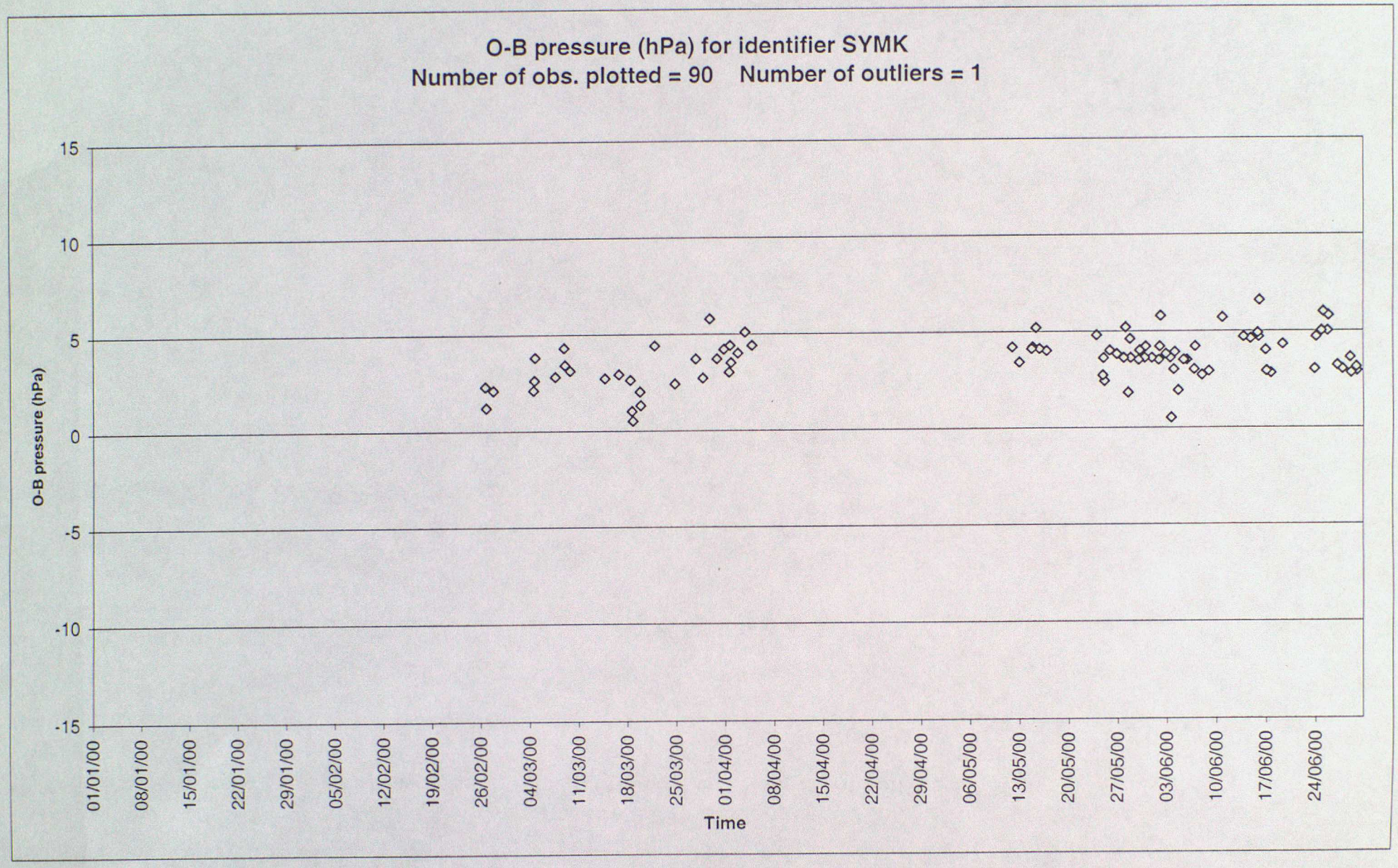
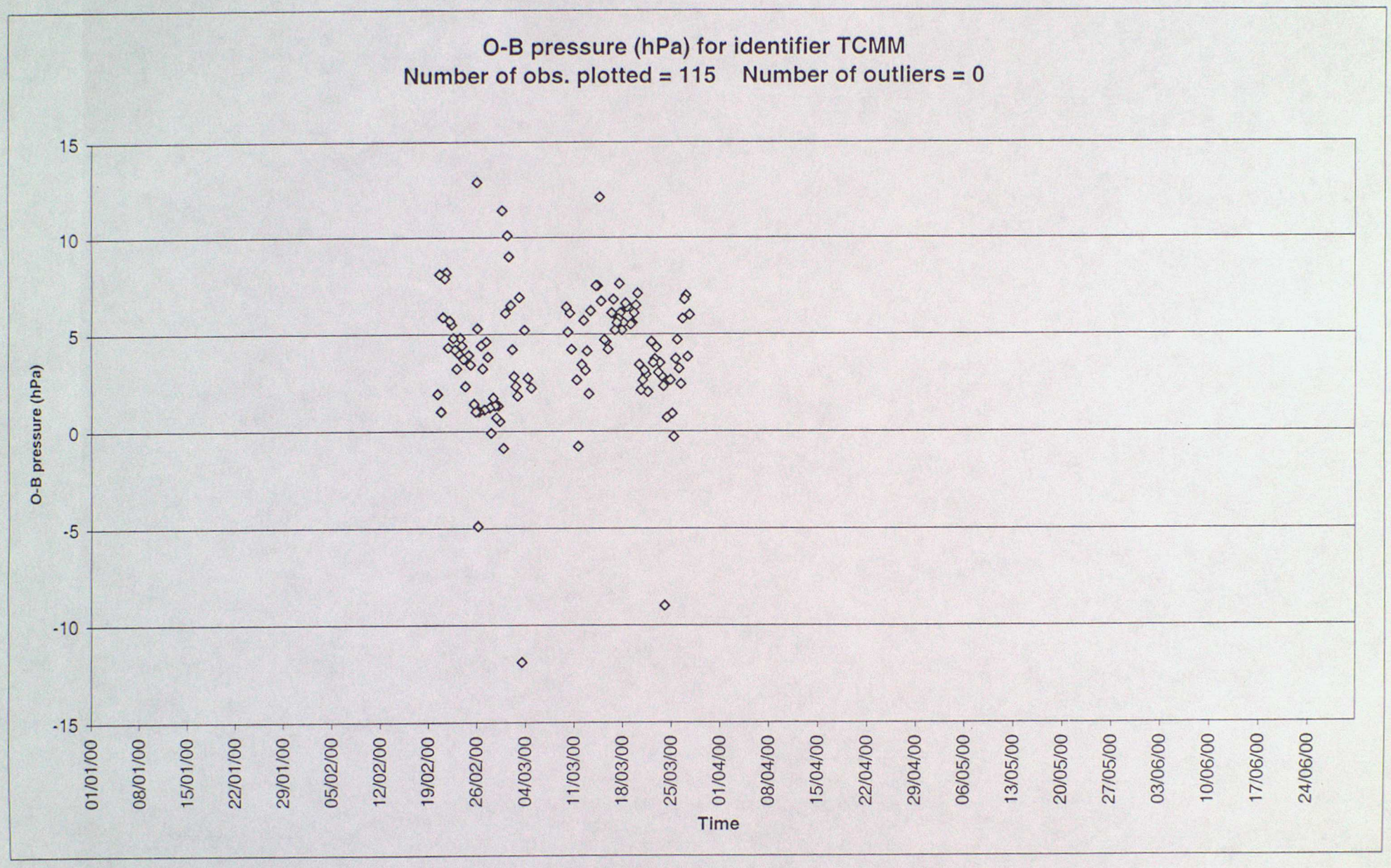
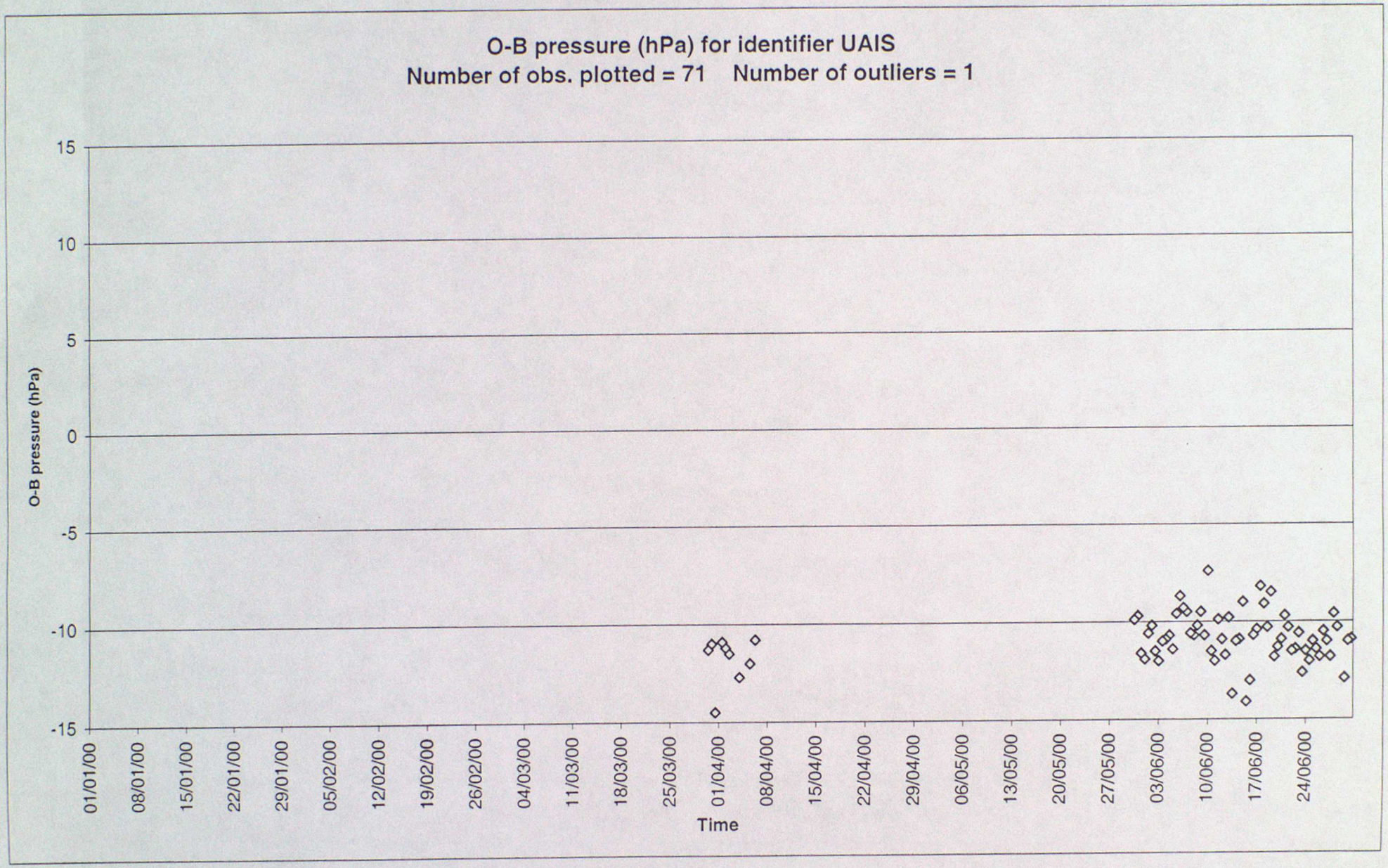
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier SYMK
Number of obs. plotted = 90 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier TCMM
Number of obs. plotted = 115 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier UACU
Number of obs. plotted = 45 Number of outliers = 3
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier UAIS
Number of obs. plotted = 71 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier UANA
Number of obs. plotted = 117 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier UBAU
Number of obs. plotted = 108 Number of outliers = 2
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier UBCB
Number of obs. plotted = 61 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier UBHT
Number of obs. plotted = 38 Number of outliers = 8
O-B pressure (hPa)
40
30
20
10
0
-10
-20
-30
-40
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier UCAD
Number of obs. plotted = 105 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier UCJB
Number of obs. plotted = 62 Number of outliers = 4
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier UCJL
Number of obs. plotted = 154 Number of outliers = 2
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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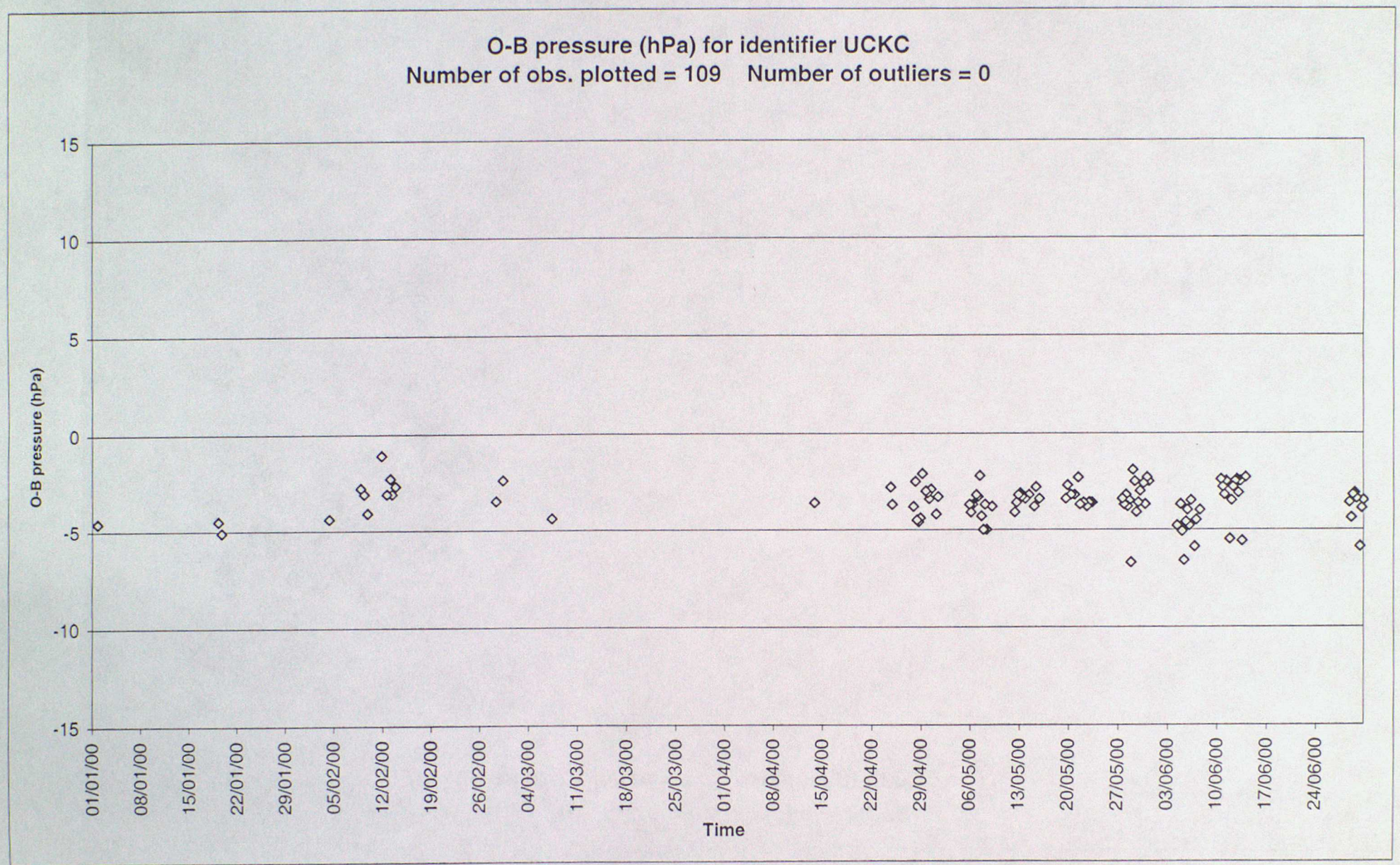
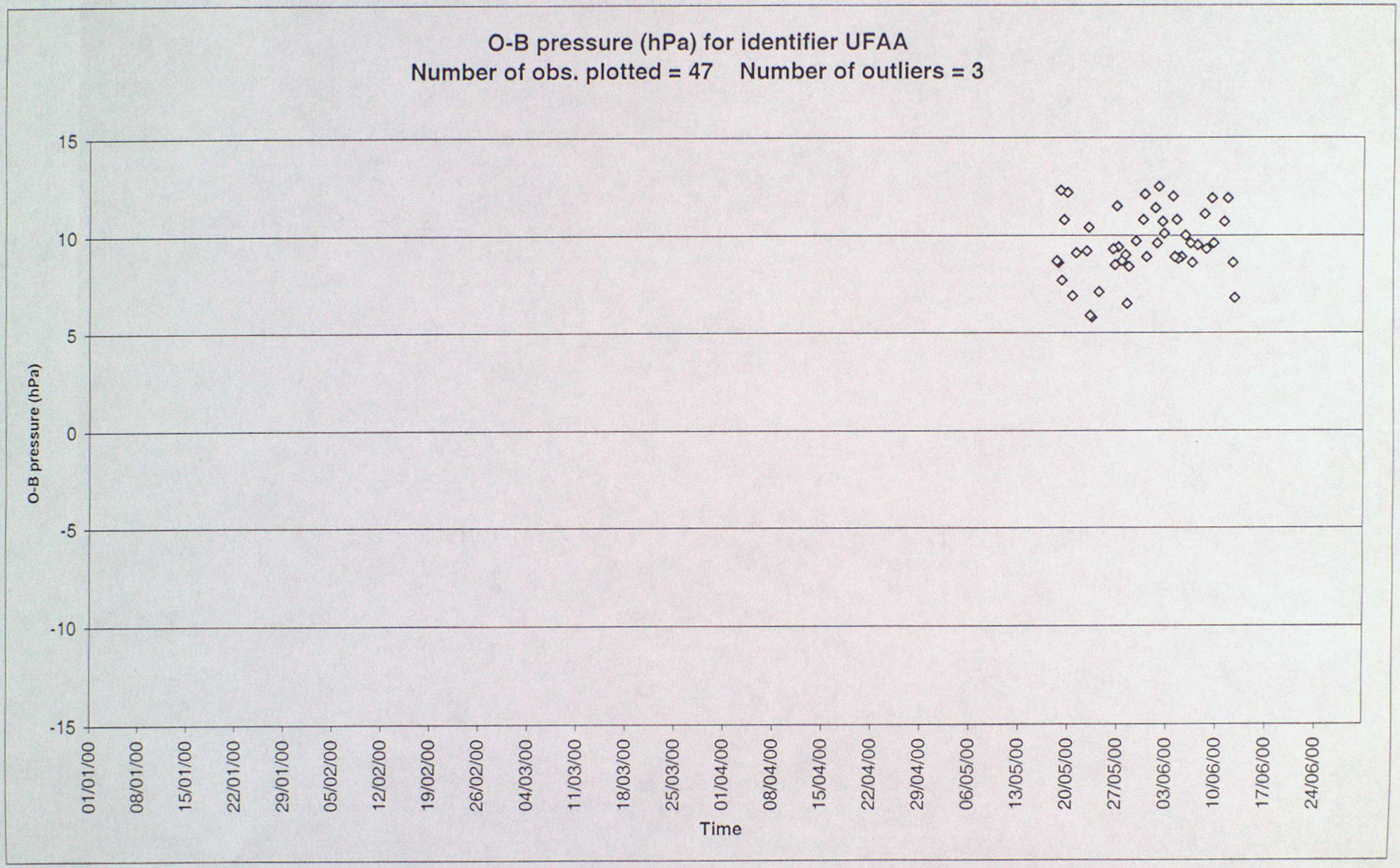
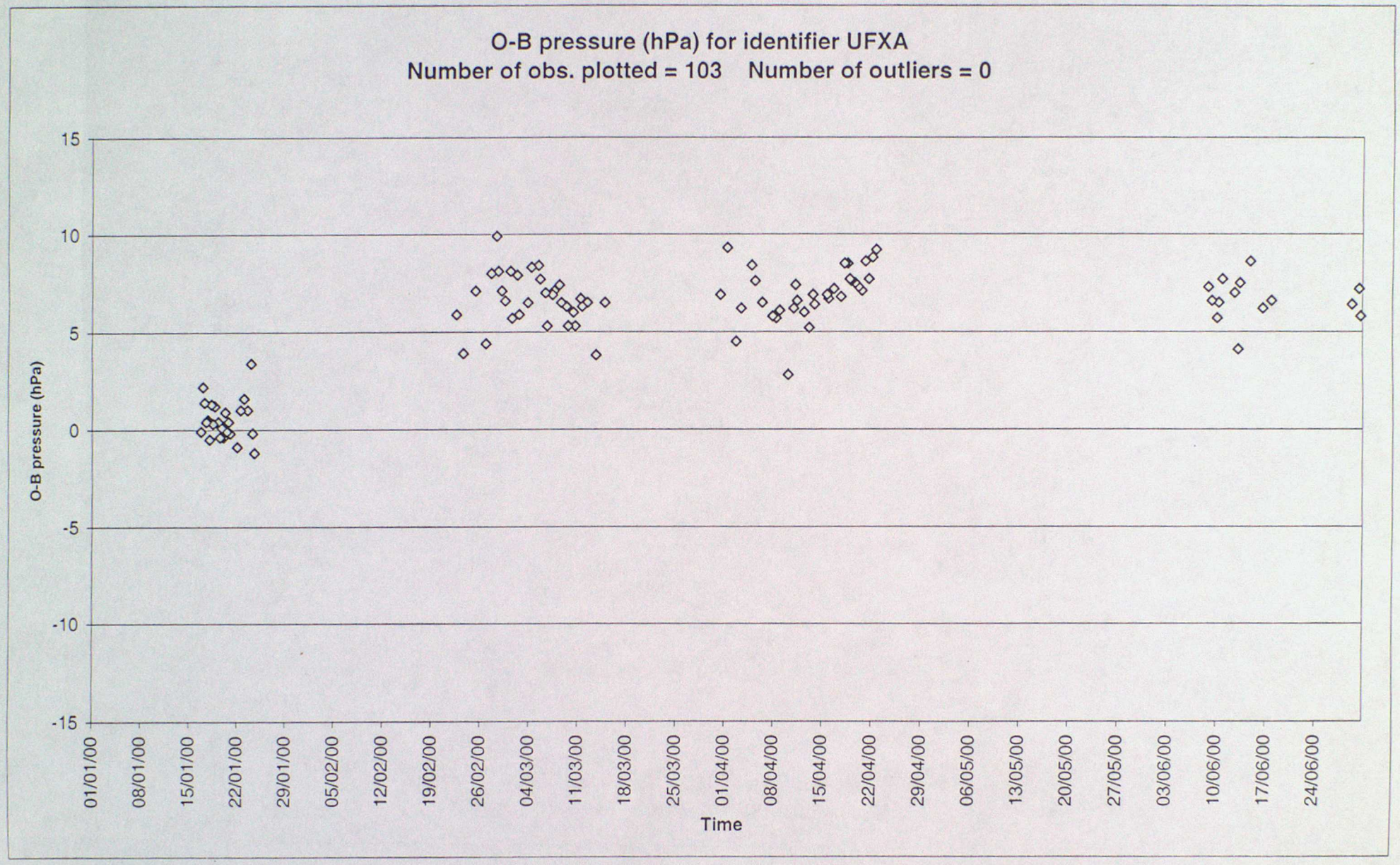
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier UCKC
Number of obs. plotted = 109 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier UCTK
Number of obs. plotted = 126 Number of outliers = 11
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier UFAA
Number of obs. plotted = 47 Number of outliers = 3
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier UFNO
Number of obs. plotted = 78 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier UFXA
Number of obs. plotted = 103 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier UGNQ
Number of obs. plotted = 210 Number of outliers = 3
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier UHVW
Number of obs. plotted = 68 Number of outliers = 9
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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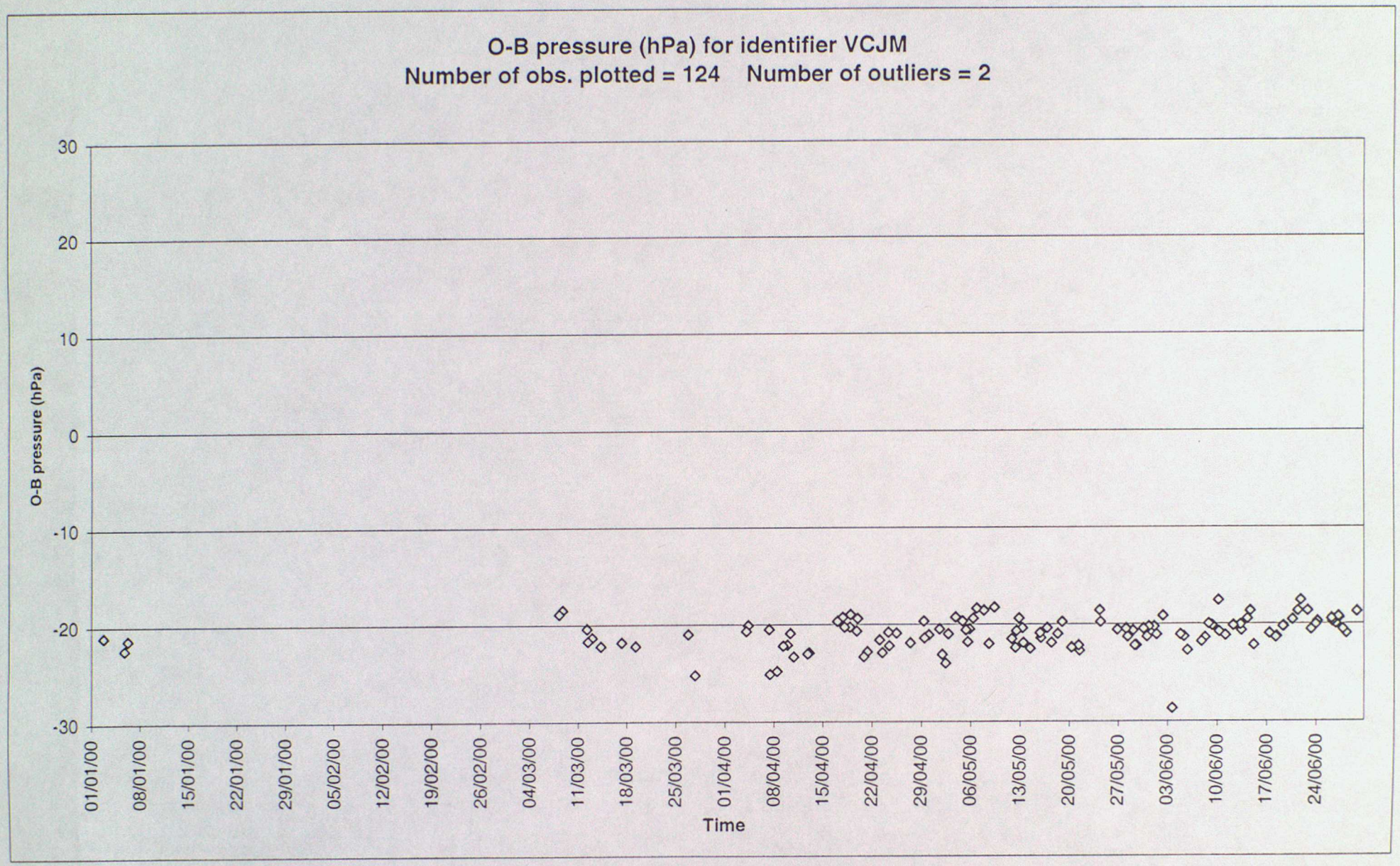
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier VCJM
Number of obs. plotted = 124 Number of outliers = 2
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier VCRQ
Number of obs. plotted = 51 Number of outliers = 1
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier VCRT
Number of obs. plotted = 98 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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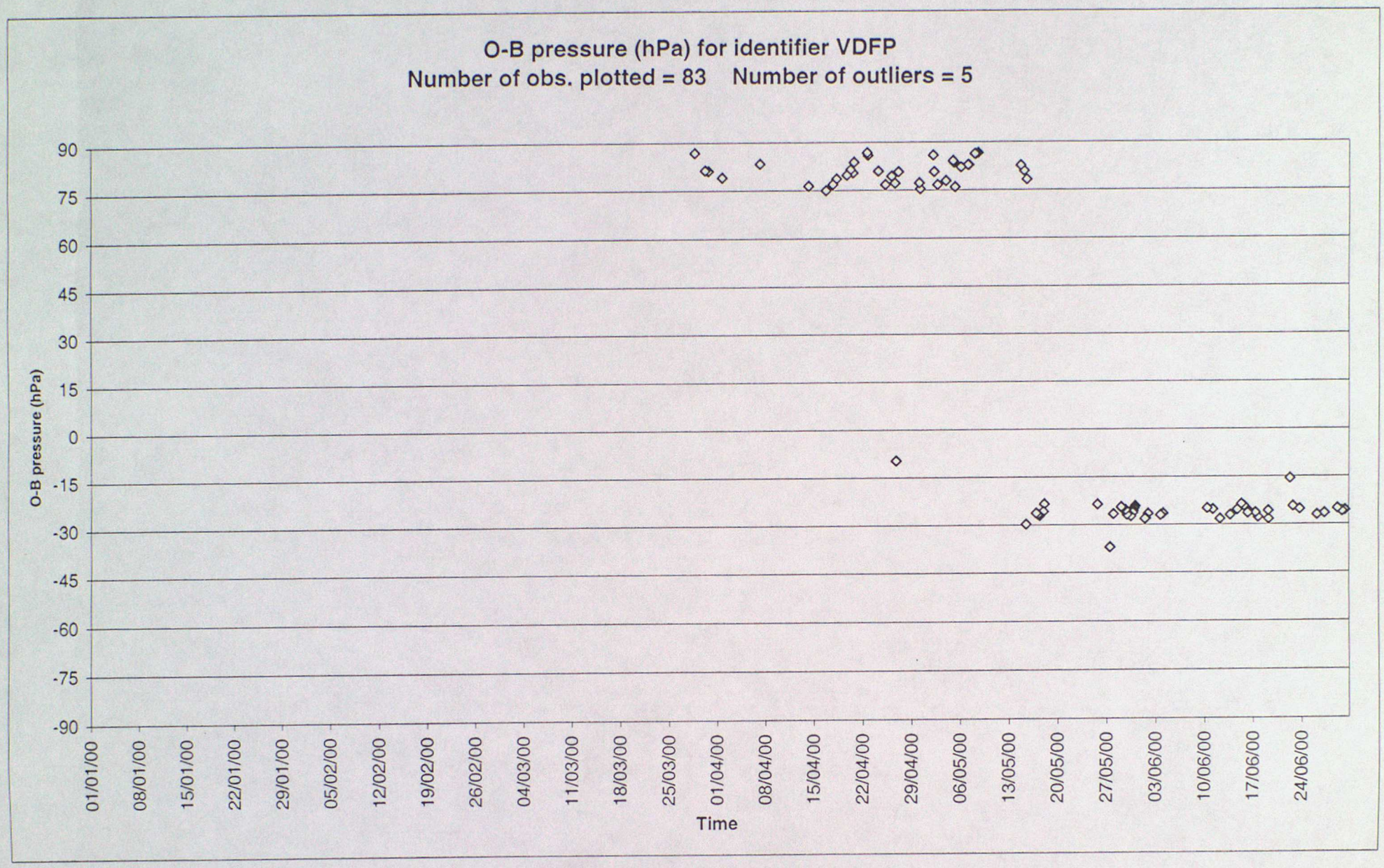
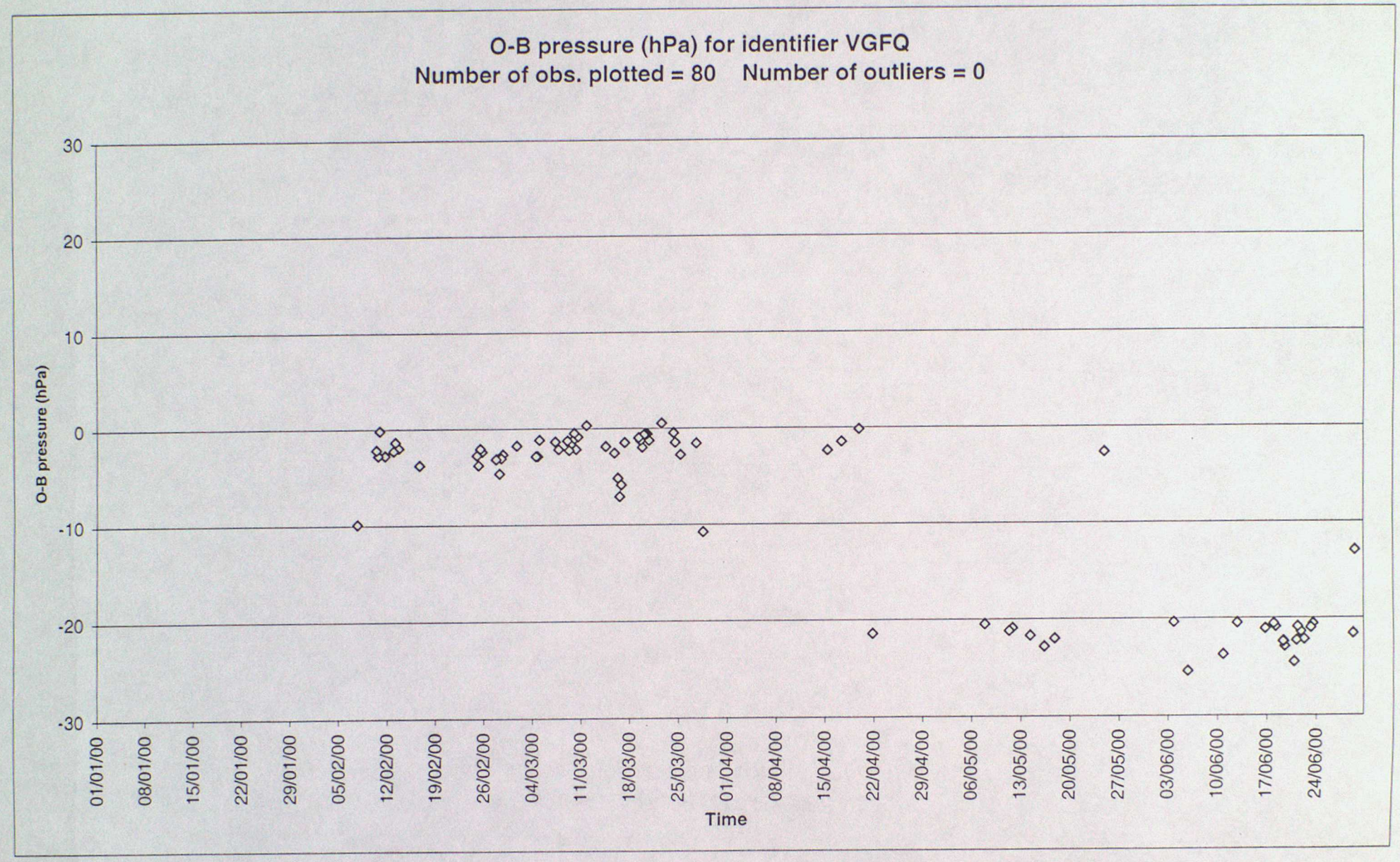
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier VDFP
Number of obs. plotted = 83 Number of outliers = 5
O-B pressure (hPa)
90
75
60
45
30
15
0
-15
-30
-45
-60
-75
-90
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier VGFQ
Number of obs. plotted = 80 Number of outliers = 0
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier VGKM
Number of obs. plotted = 38 Number of outliers = 2
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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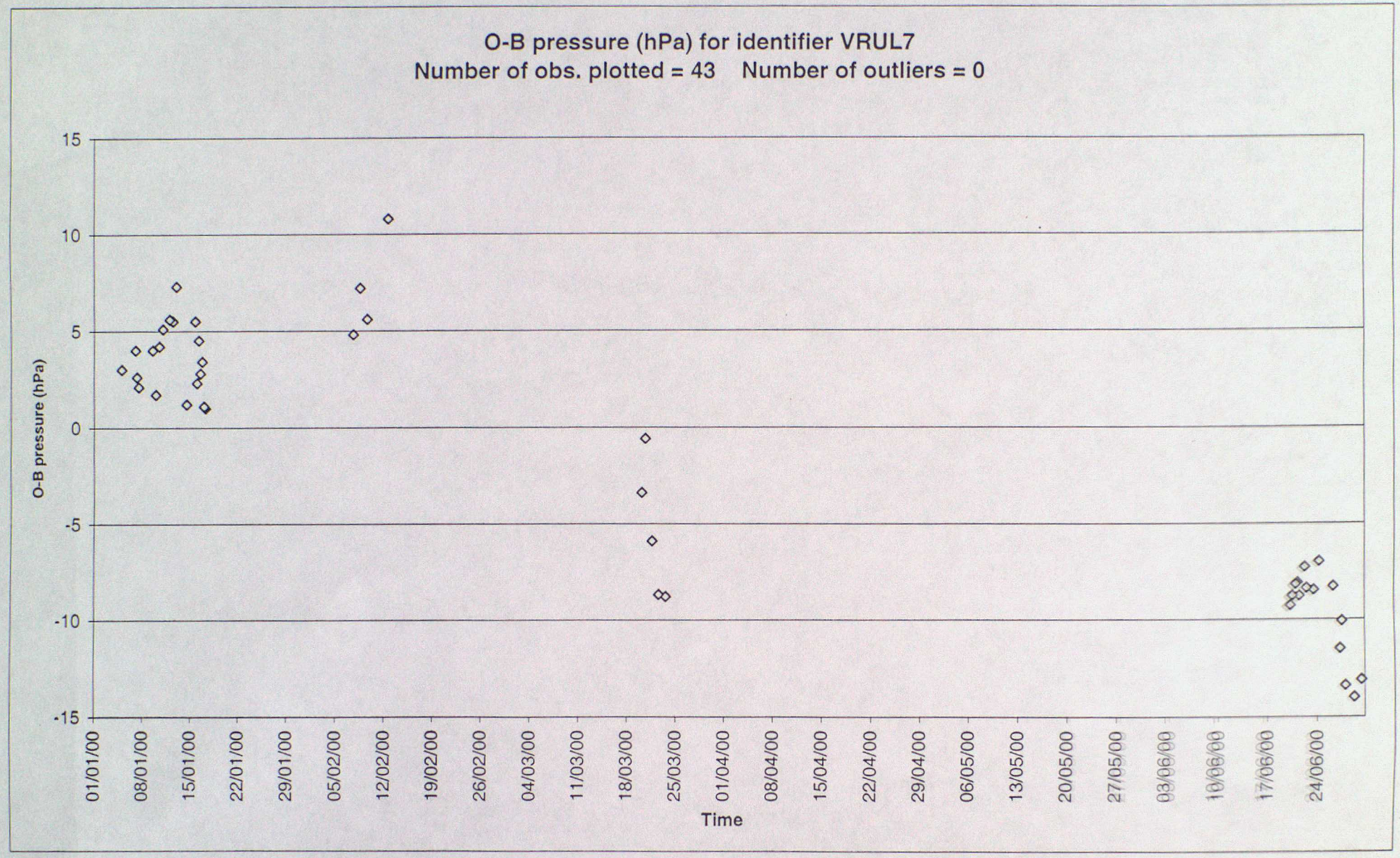
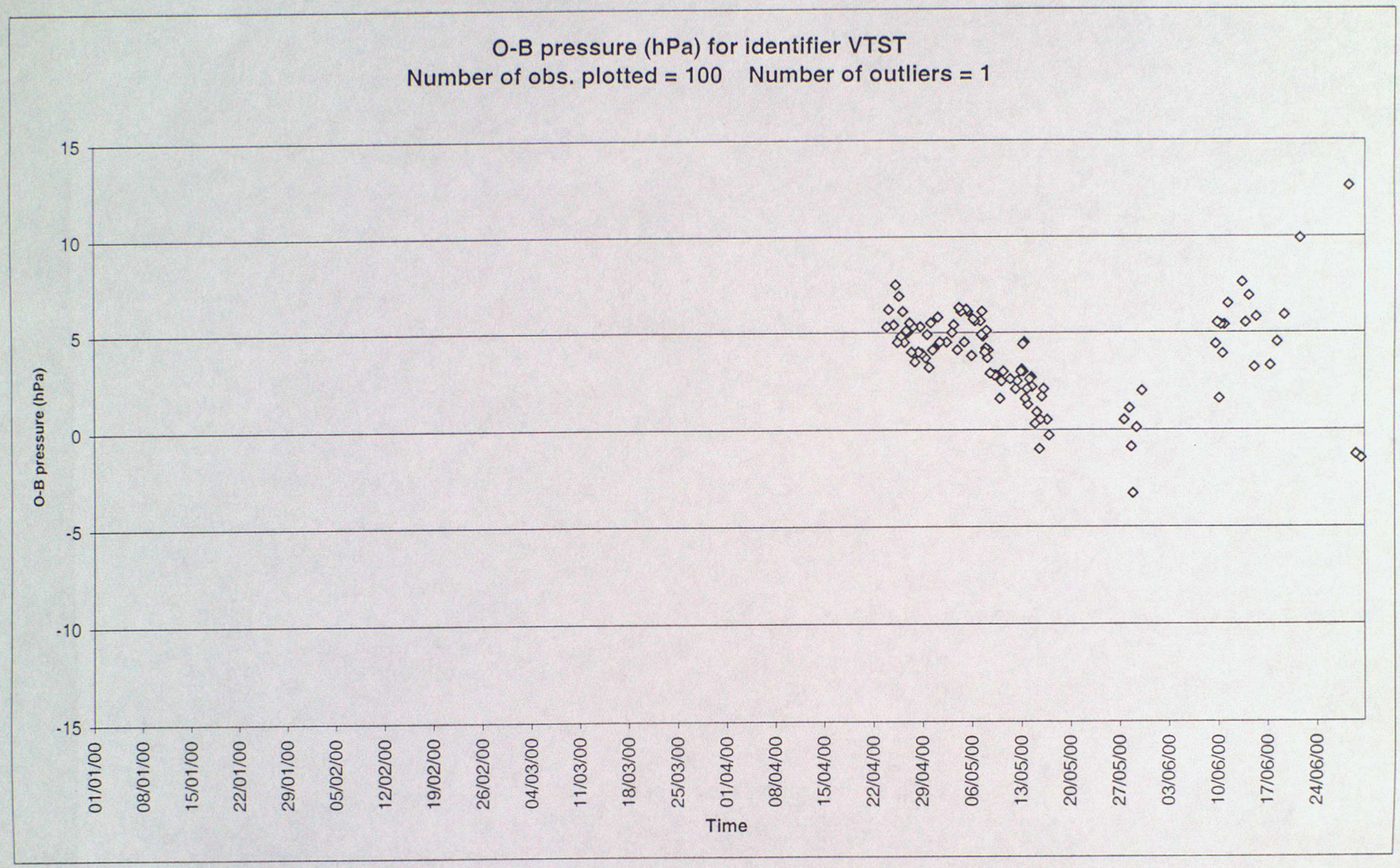
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier VRUL7
Number of obs. plotted = 43 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier VRVV9
Number of obs. plotted = 54 Number of outliers = 4
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier VTST
Number of obs. plotted = 100 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier VVCY
Number of obs. plotted = 54 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier VVML
Number of obs. plotted = 44 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier V7BA6
Number of obs. plotted = 78 Number of outliers = 0
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier WAUU
Number of obs. plotted = 167 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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27/05/00
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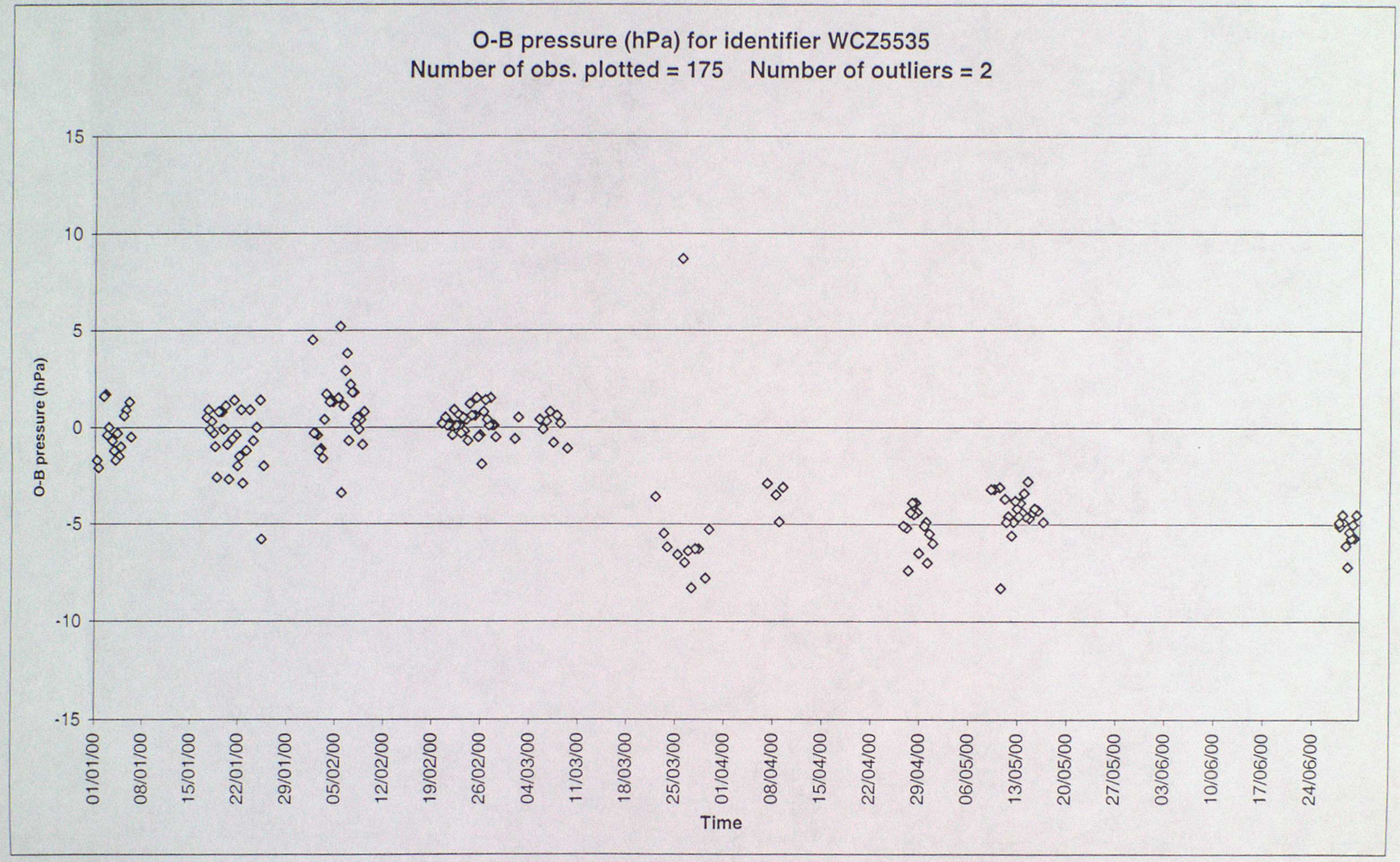
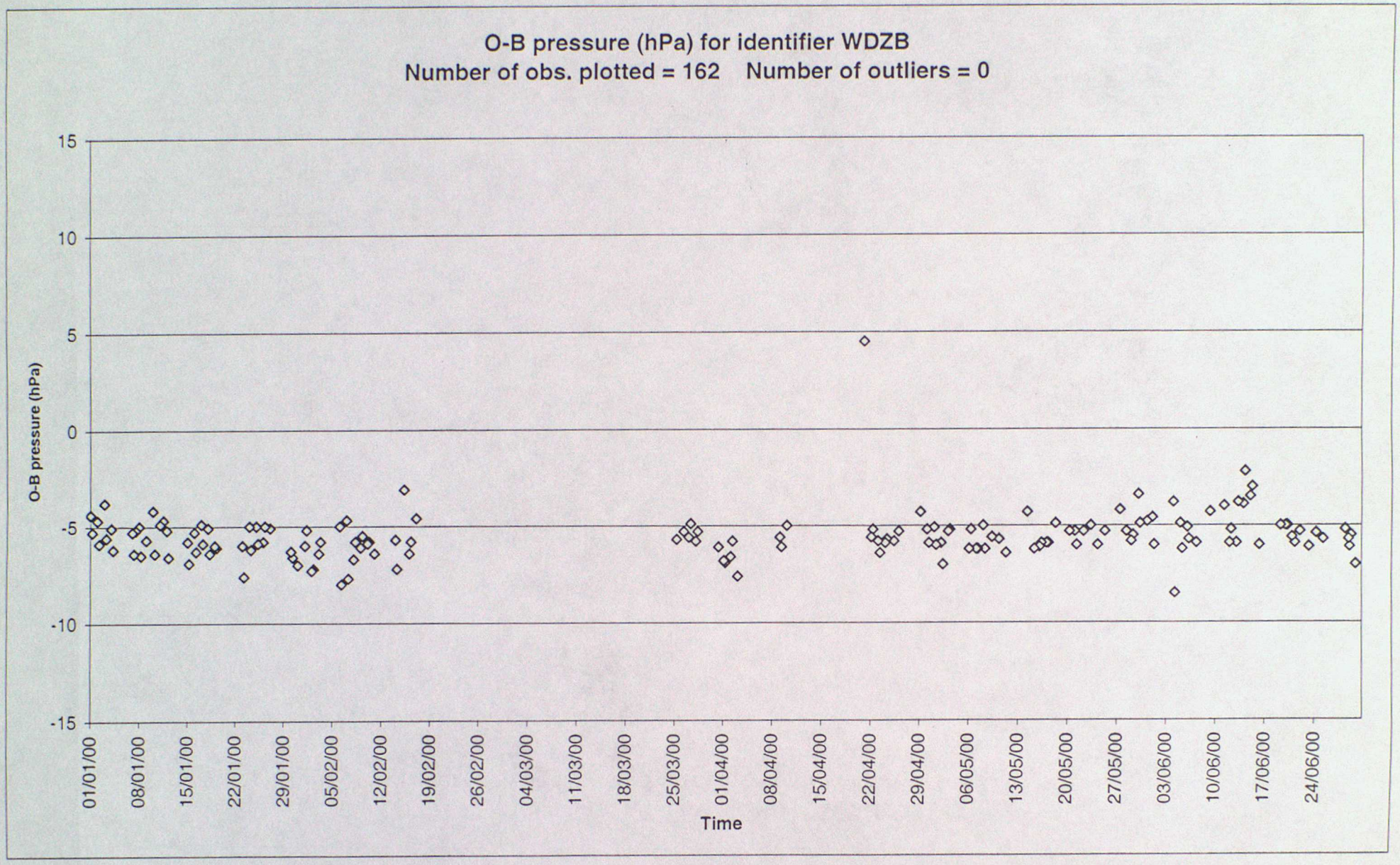
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier WCZ5535
Number of obs. plotted = 175 Number of outliers = 2
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier WDZB
Number of obs. plotted = 162 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier WSK2703
Number of obs. plotted = 42 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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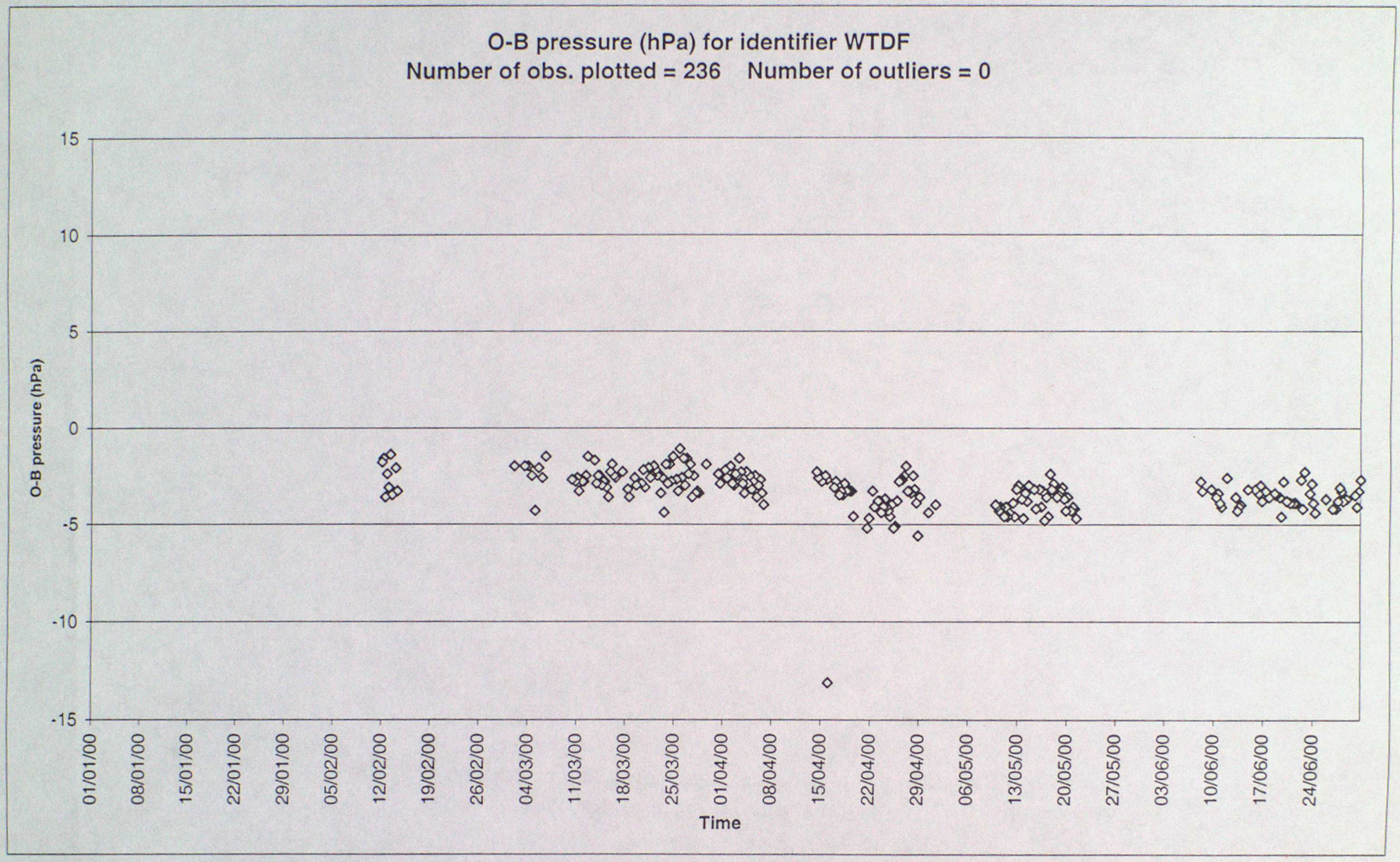
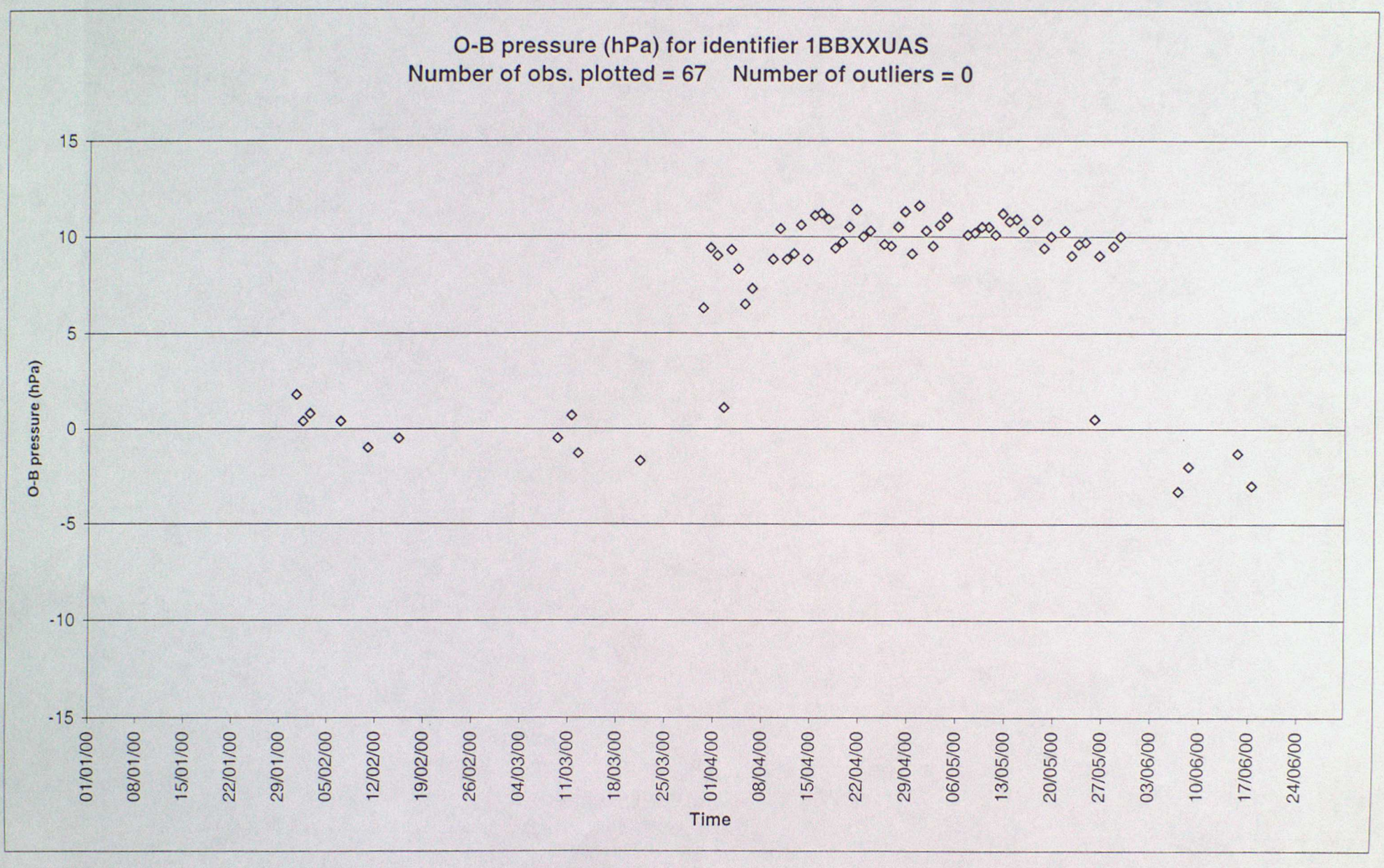
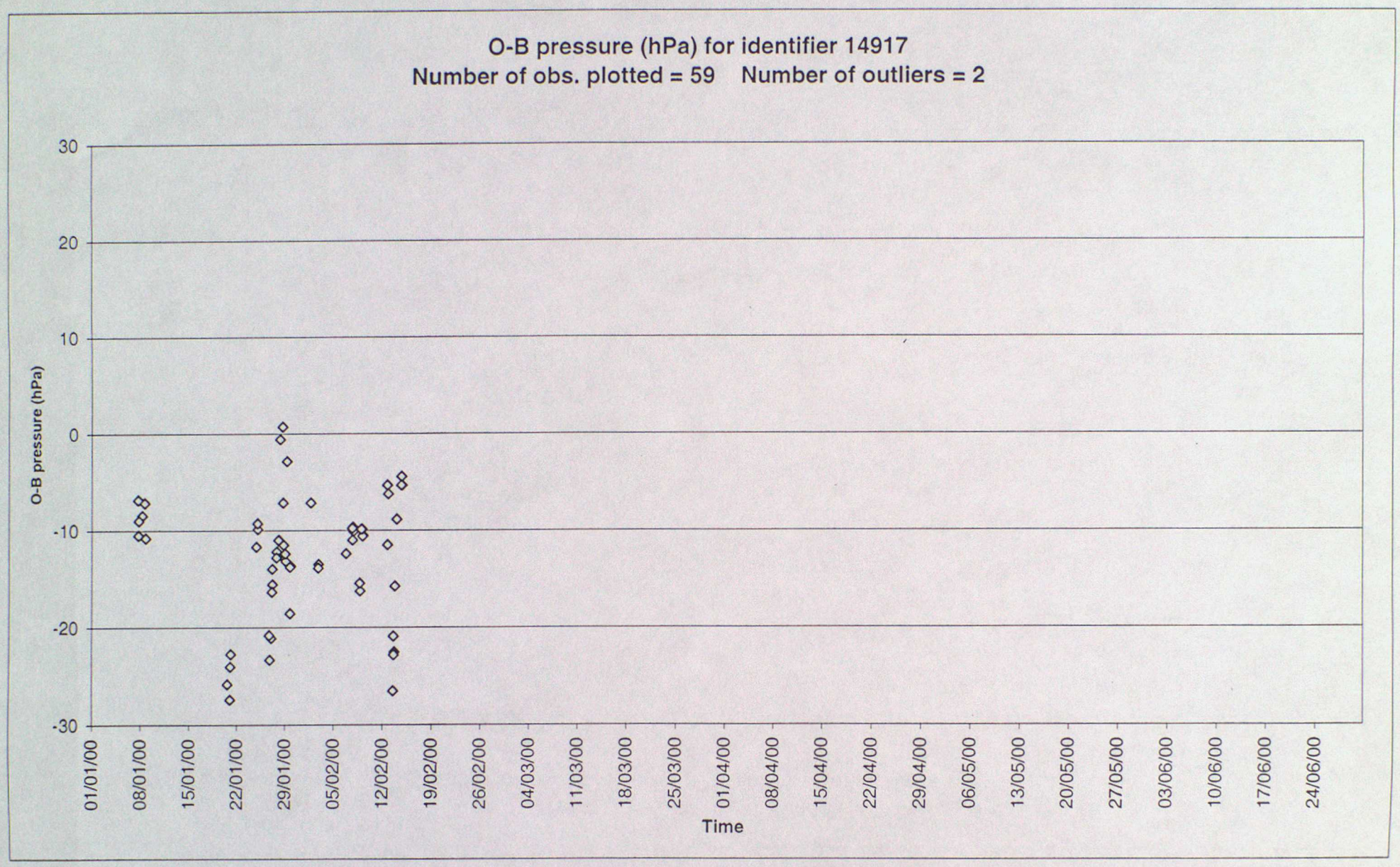
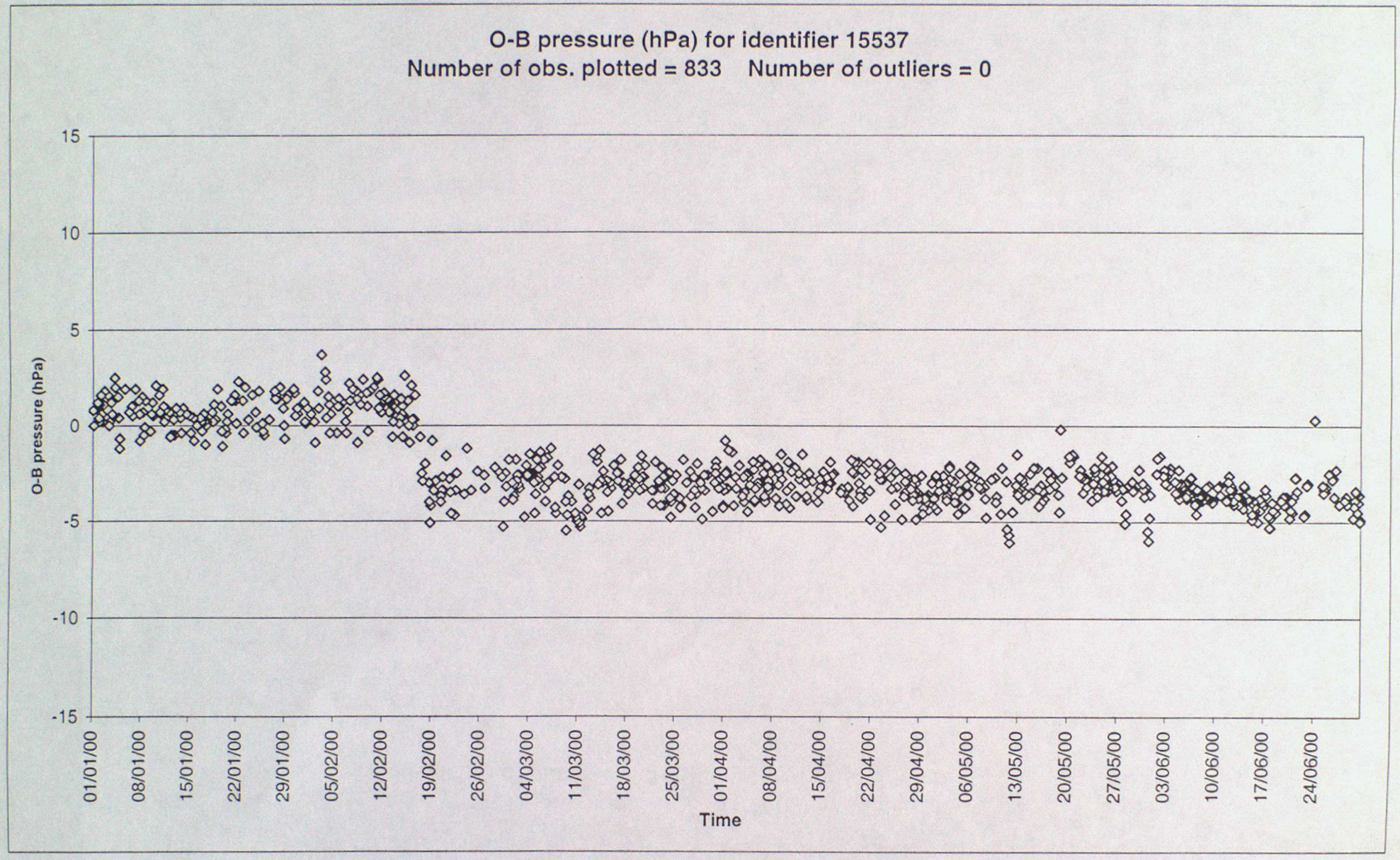
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier WTDF
Number of obs. plotted = 236 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 1BBXXUAS
Number of obs. plotted = 67 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

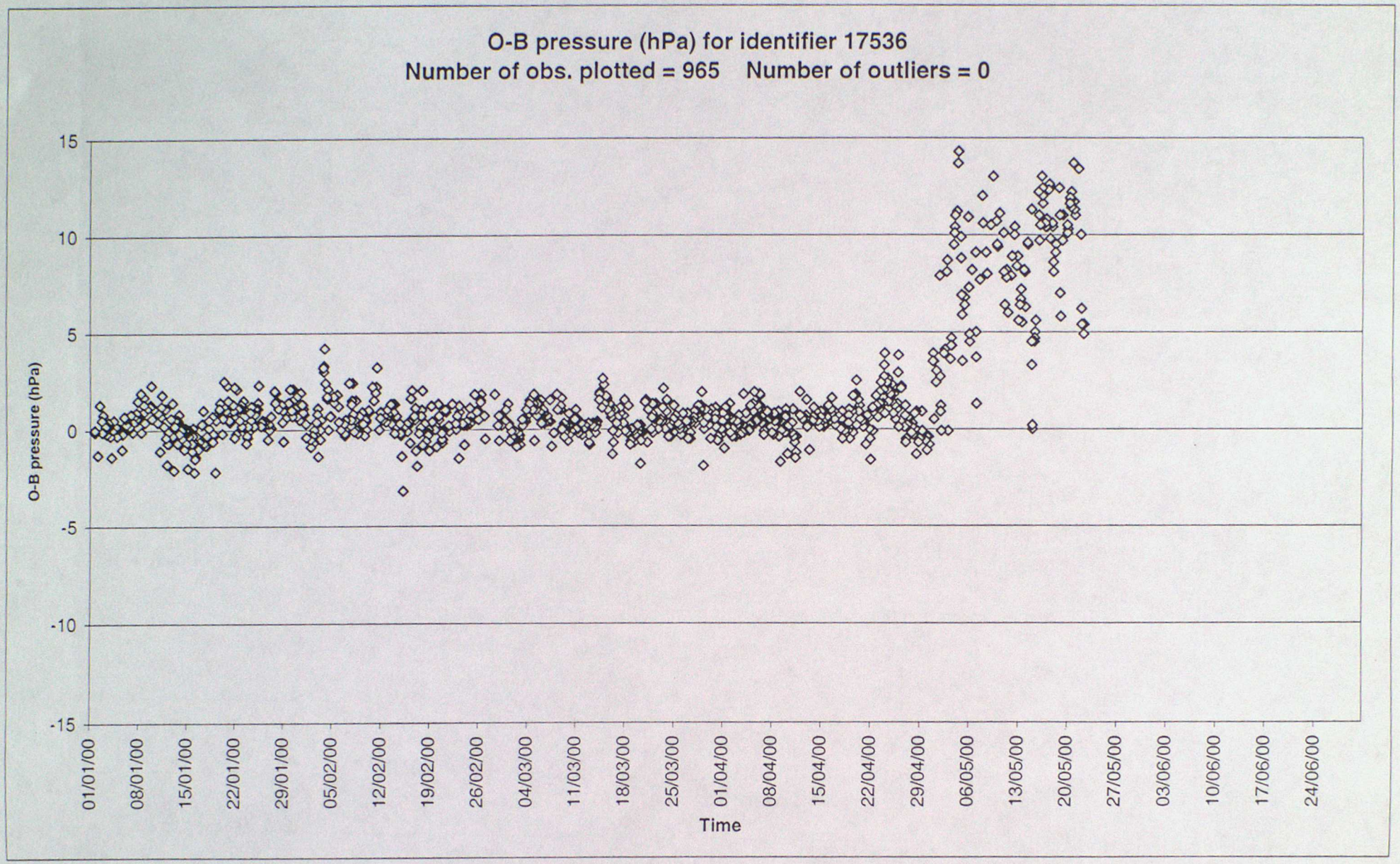

O-B pressure (hPa) for identifier 14917
Number of obs. plotted = 59 Number of outliers = 2
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier 15536
Number of obs. plotted = 436 Number of outliers = 0
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

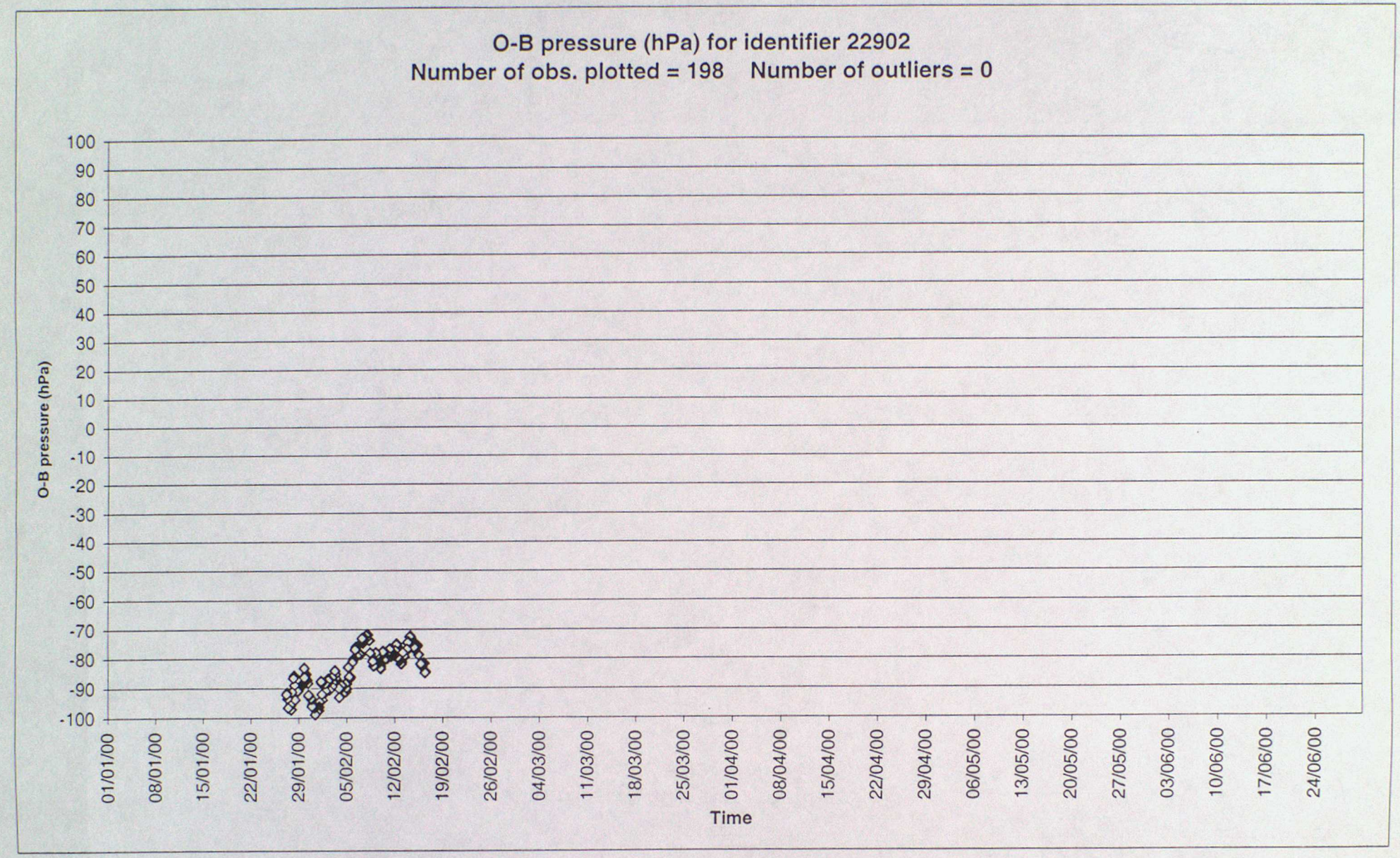

O-B pressure (hPa) for identifier 15537
Number of obs. plotted = 833 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

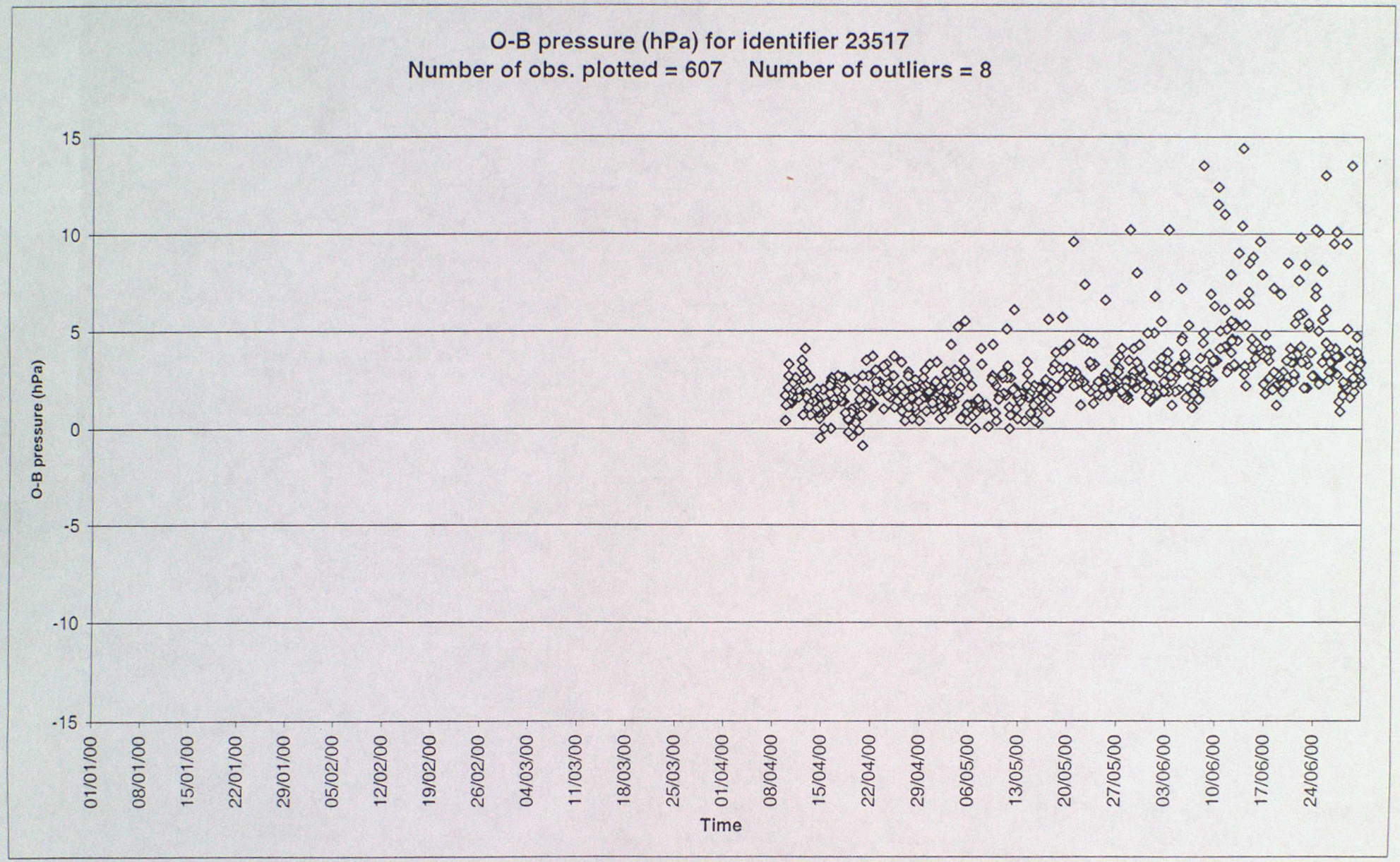
O-B pressure (hPa) for identifier 16936
Number of obs. plotted = 718 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

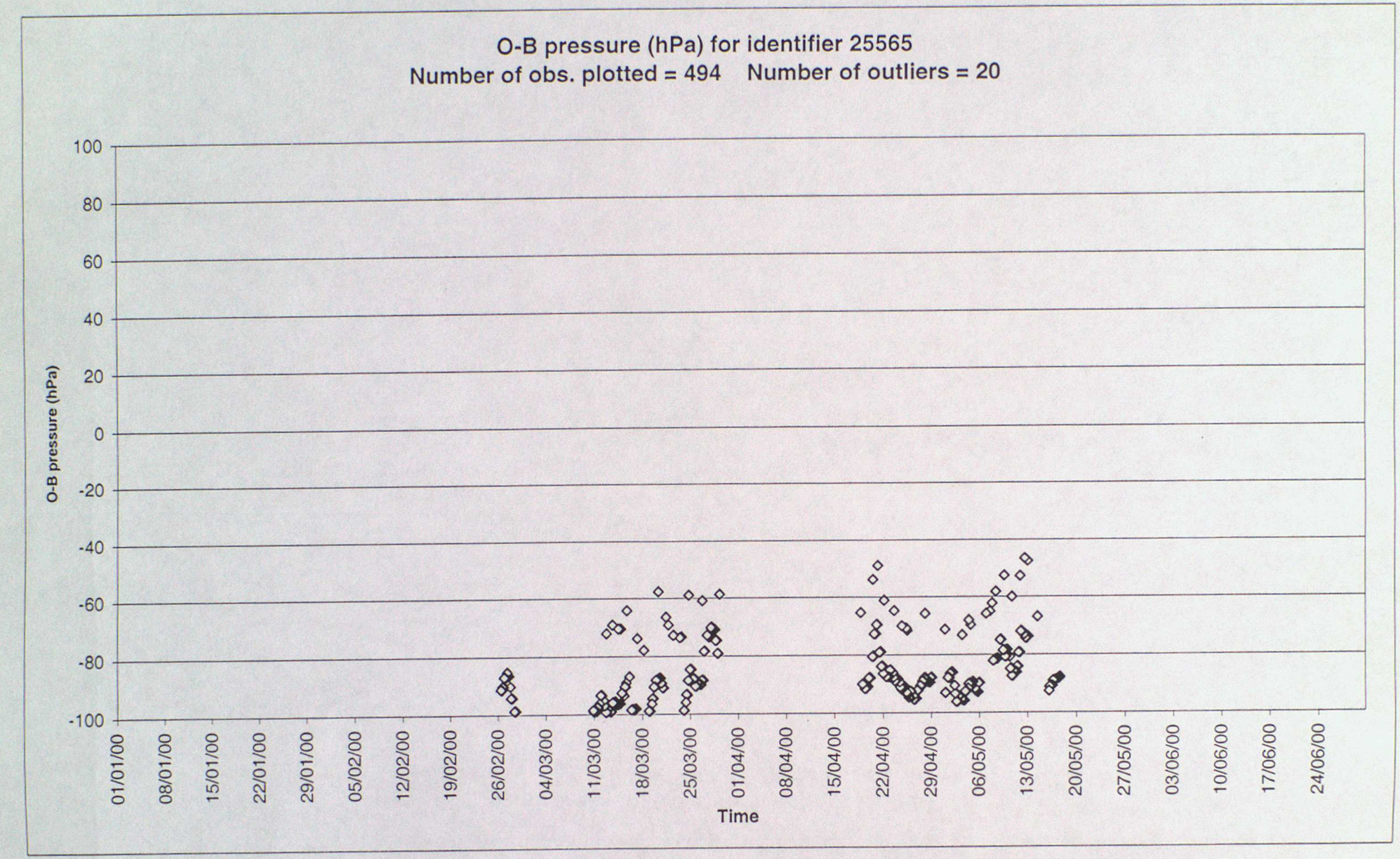
O-B pressure (hPa) for identifier 17519
Number of obs. plotted = 671 Number of outliers = 0
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier 17536
Number of obs. plotted = 965 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier 22901
Number of obs. plotted = 234 Number of outliers = 10
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier 22902
Number of obs. plotted = 198 Number of outliers = 0
O-B pressure (hPa)
100
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 23517
Number of obs. plotted = 607 Number of outliers = 8
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 25565
Number of obs. plotted = 494 Number of outliers = 20
O-B pressure (hPa)
100
80
60
40
20
0
-20
-40
-60
-80
-100
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier 3FDY6
Number of obs. plotted = 32 Number of outliers = 12
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier 3FGN3
Number of obs. plotted = 107 Number of outliers = 5
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier 3FPA6
Number of obs. plotted = 48 Number of outliers = 1
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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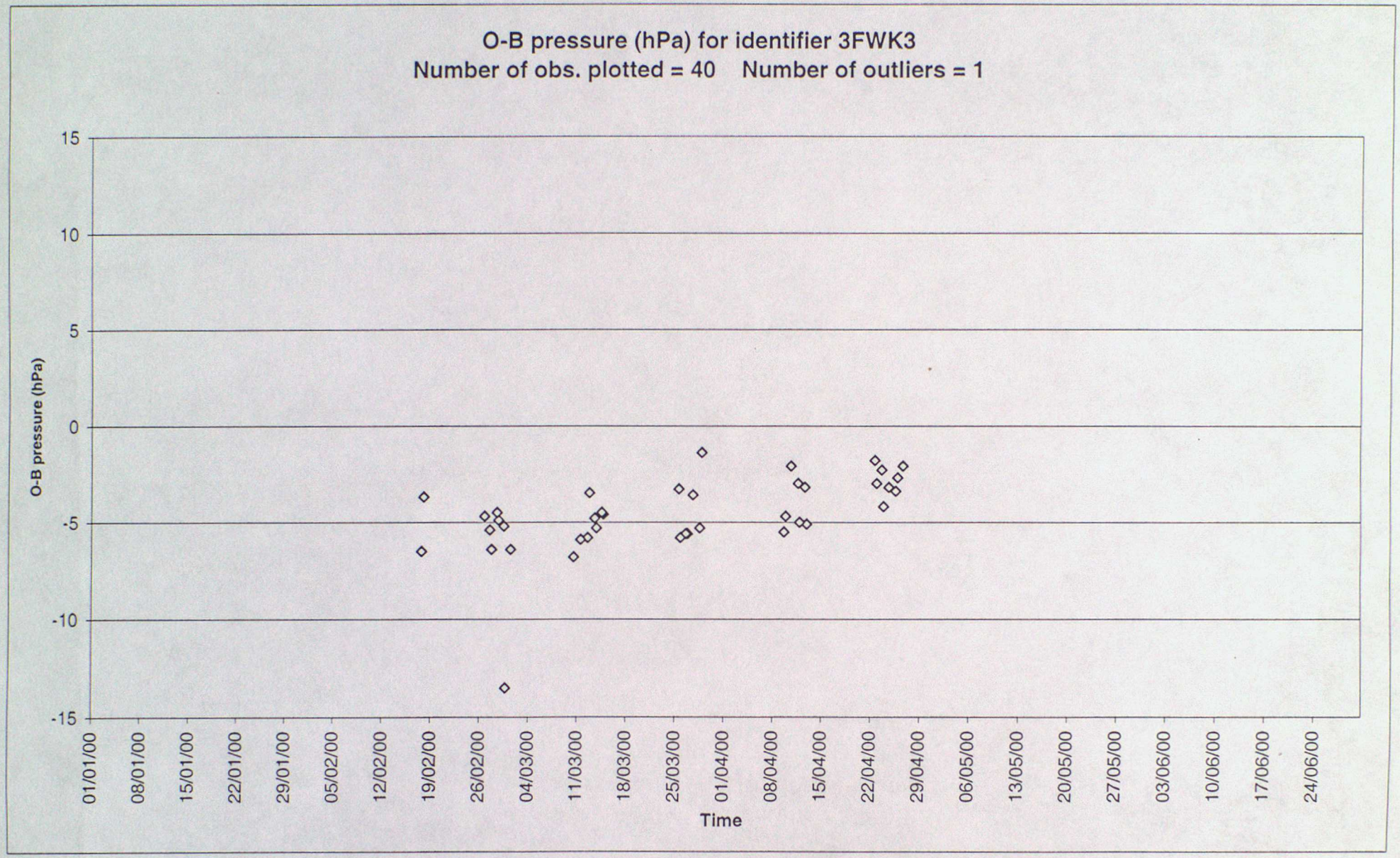
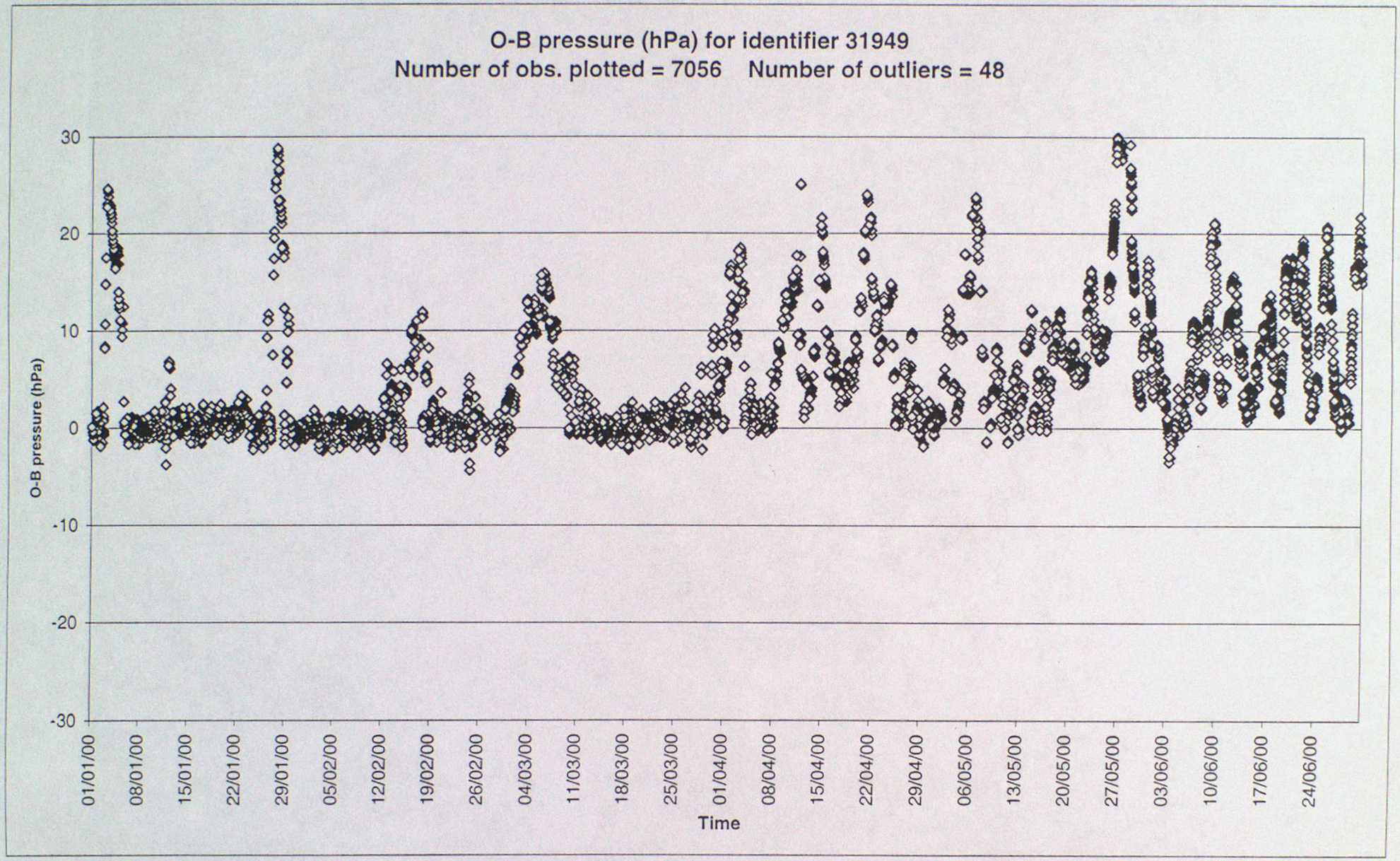
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier 3FWK3
Number of obs. plotted = 40 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

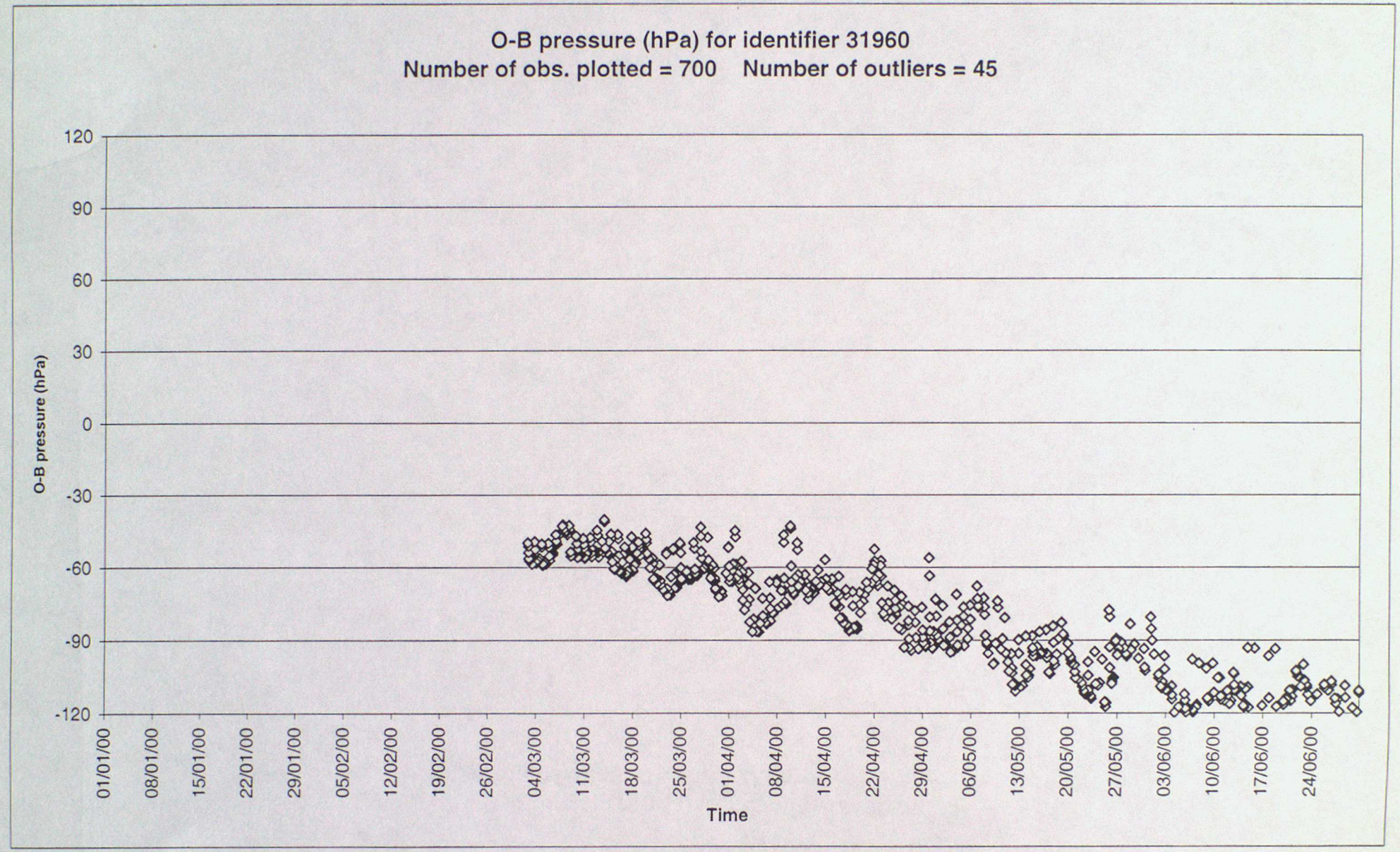
O-B pressure (hPa) for identifier 3FXT6
Number of obs. plotted = 54 Number of outliers = 3
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

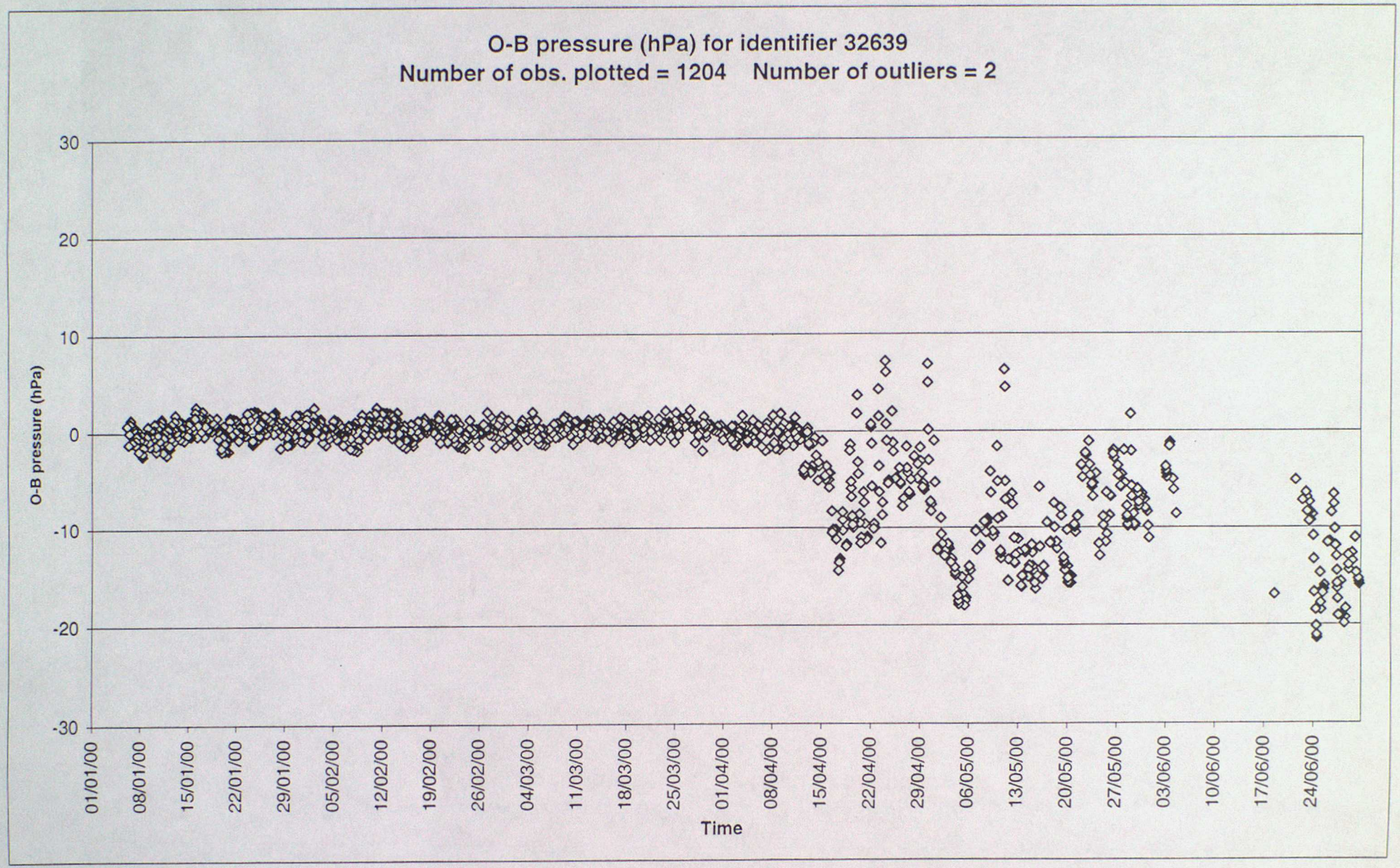
O-B pressure (hPa) for identifier 31902
Number of obs. plotted = 79 Number of outliers = 0
O-B pressure (hPa)
75
50
25
0
-25
-50
-75
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier 31949
Number of obs. plotted = 7056 Number of outliers = 48
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier 31953
Number of obs. plotted = 3773 Number of outliers = 84
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier 31959
Number of obs. plotted = 210 Number of outliers = 6
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier 31960
Number of obs. plotted = 700 Number of outliers = 45
O-B pressure (hPa)
120
90
60
30
0
-30
-60
-90
-120
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 32639
Number of obs. plotted = 1204 Number of outliers = 2
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier 33904
Number of obs. plotted = 1667 Number of outliers = 4
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier 33905
Number of obs. plotted = 642 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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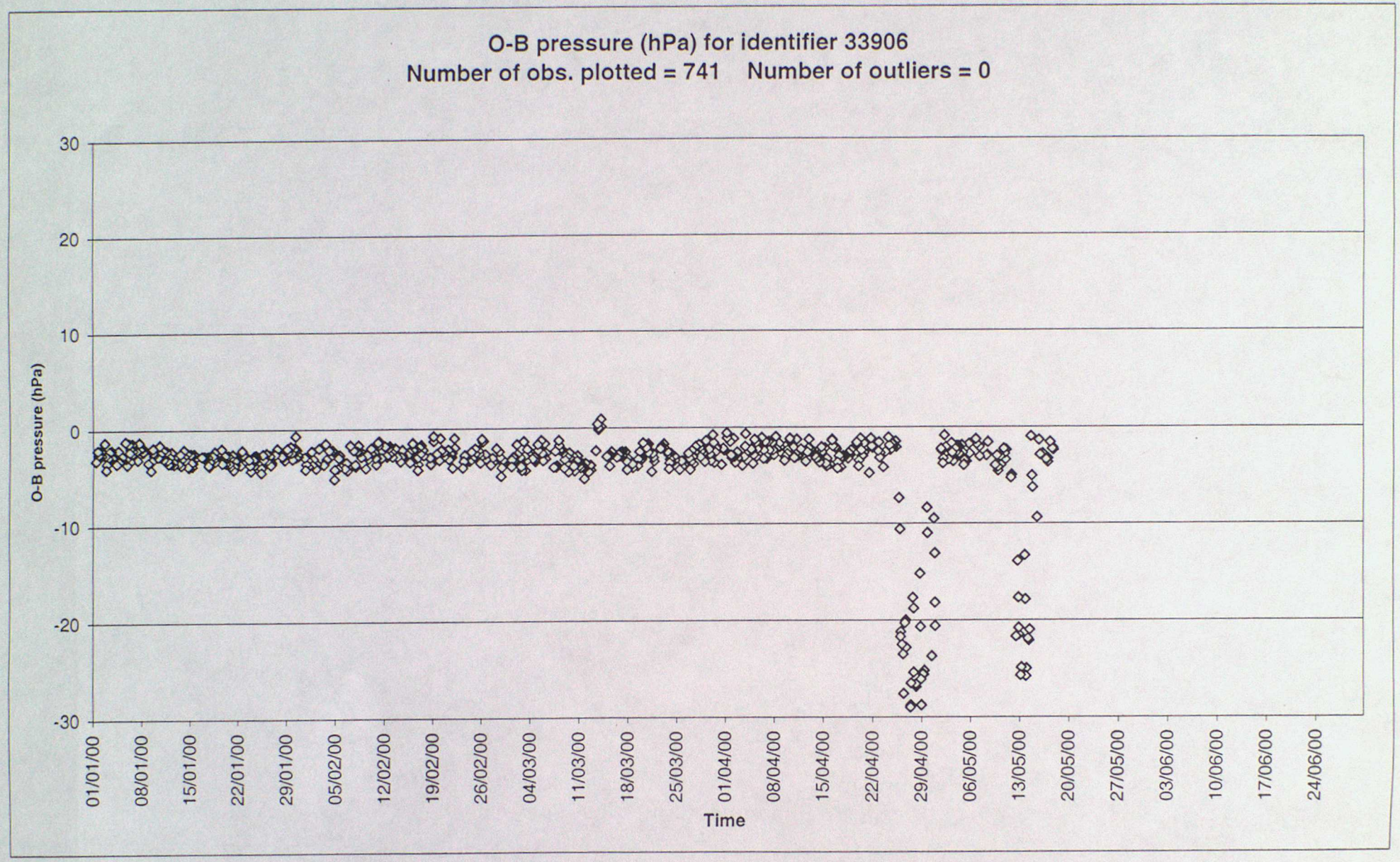
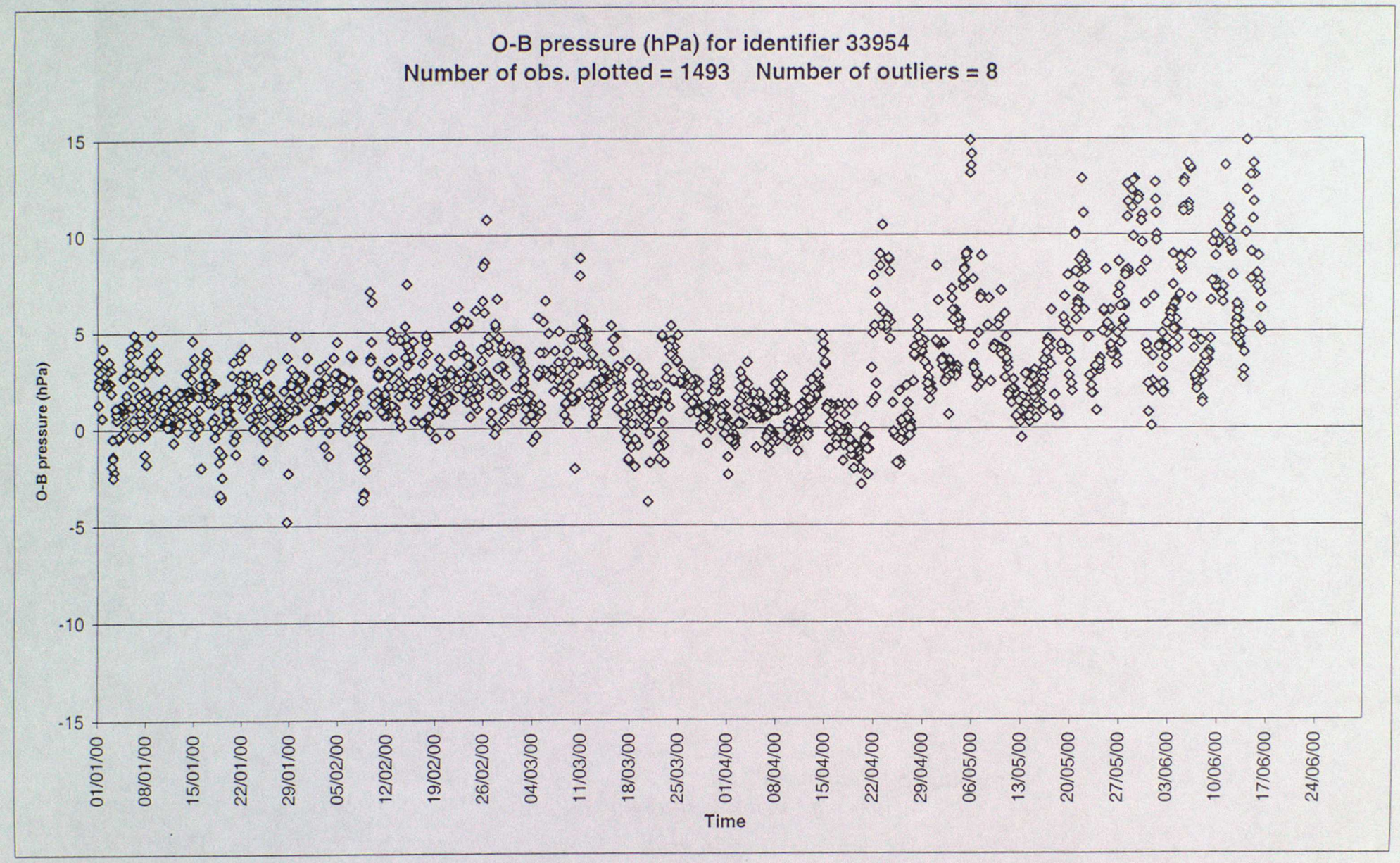
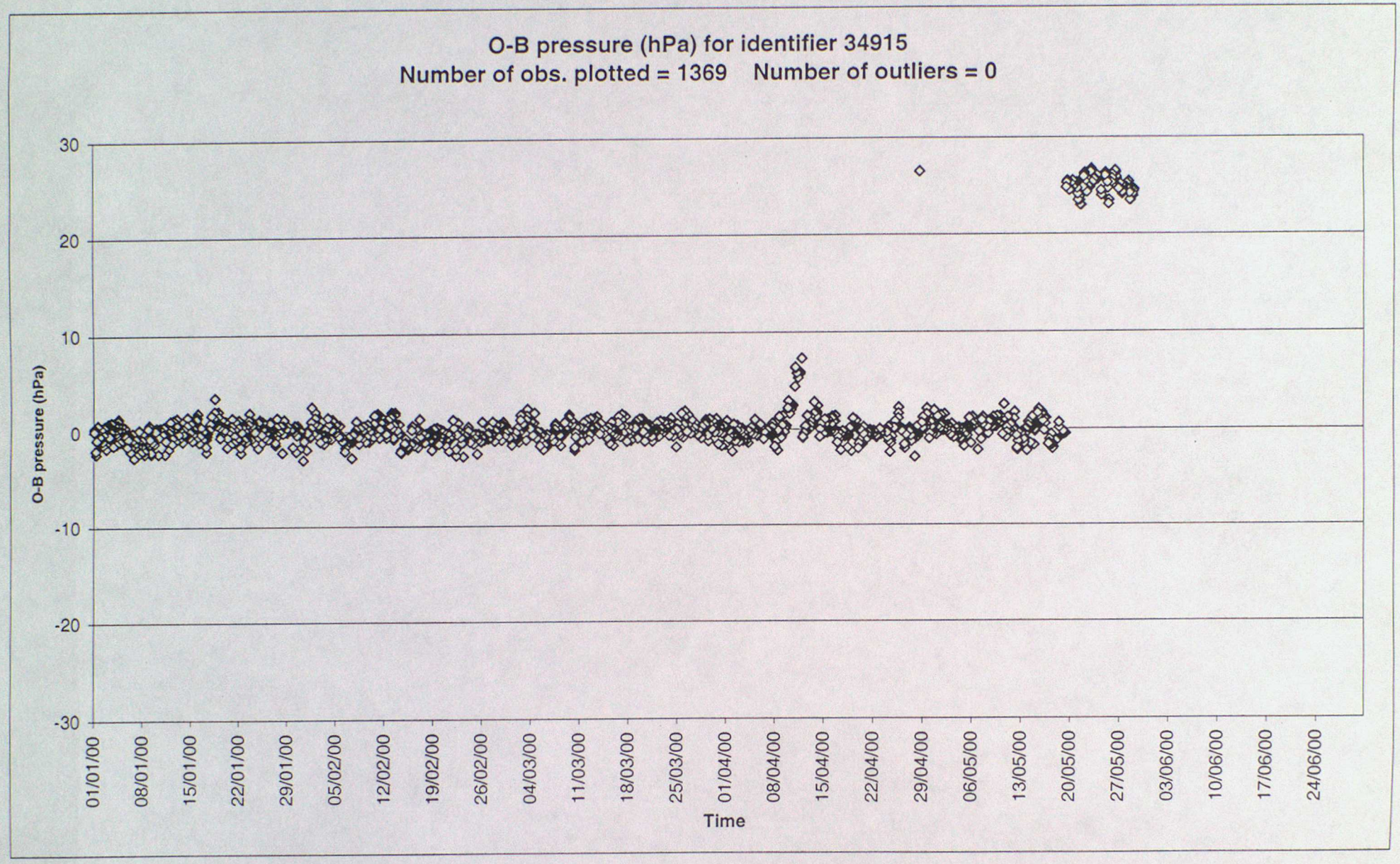
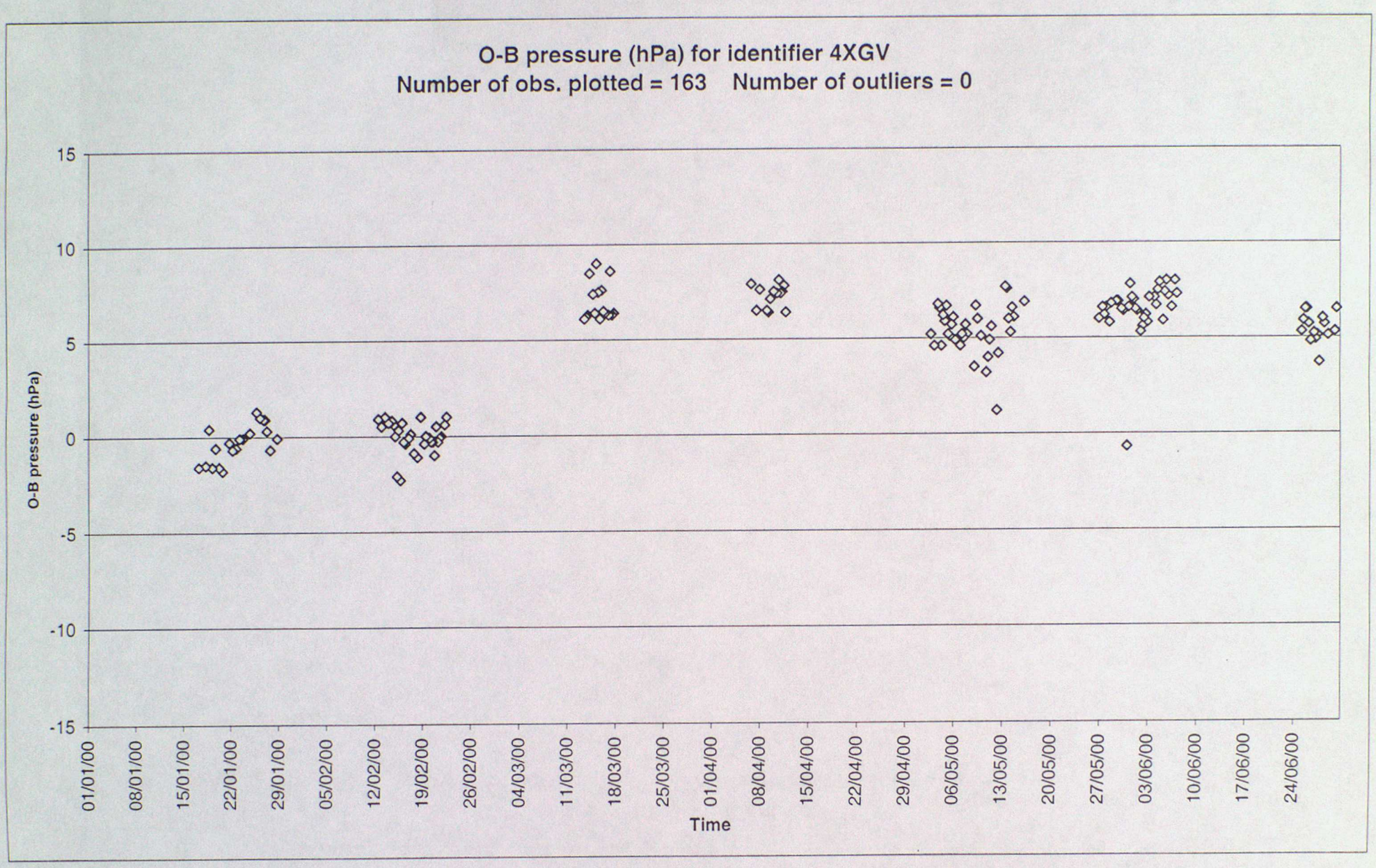
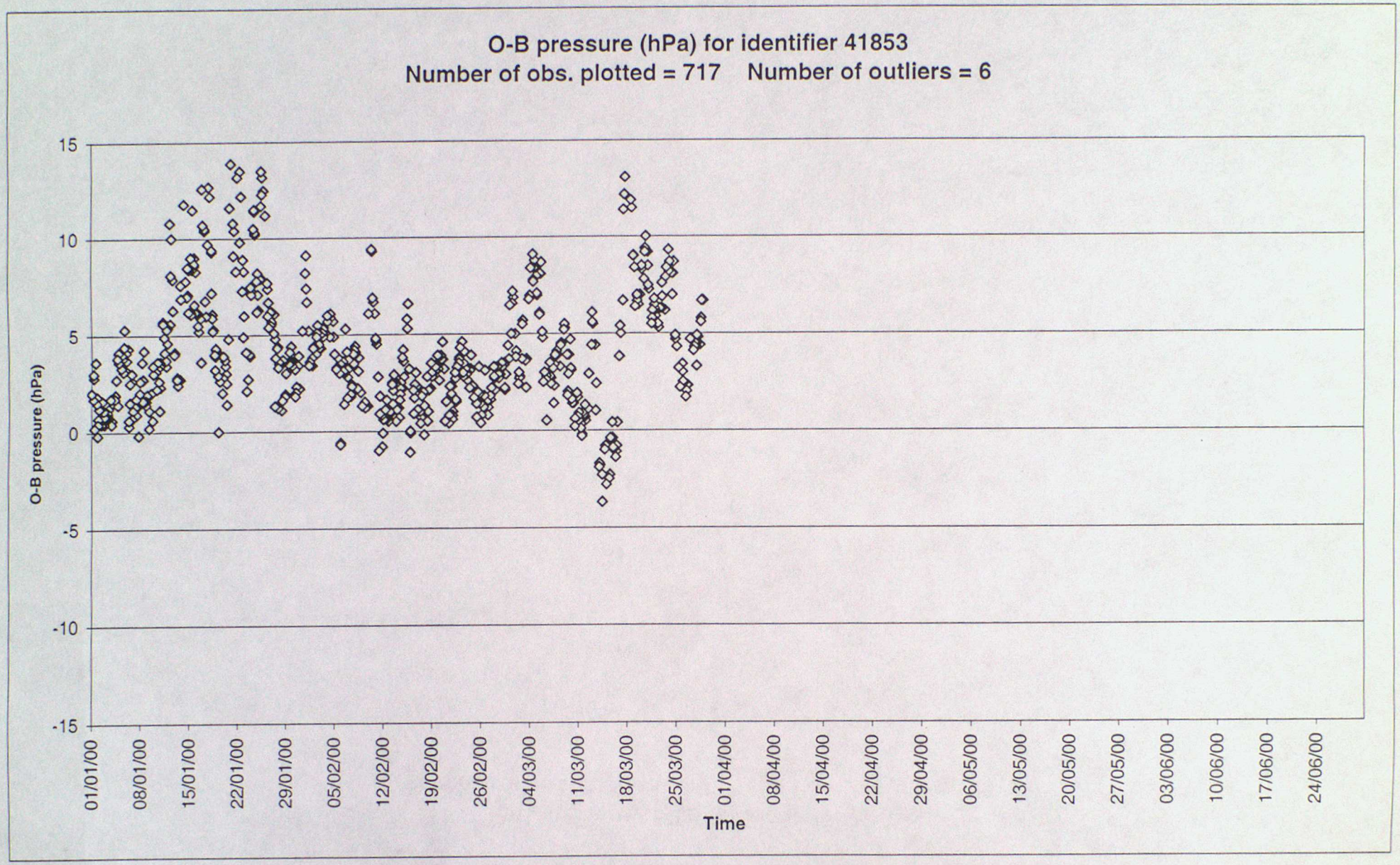
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier 33906
Number of obs. plotted = 741 Number of outliers = 0
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 33954
Number of obs. plotted = 1493 Number of outliers = 8
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

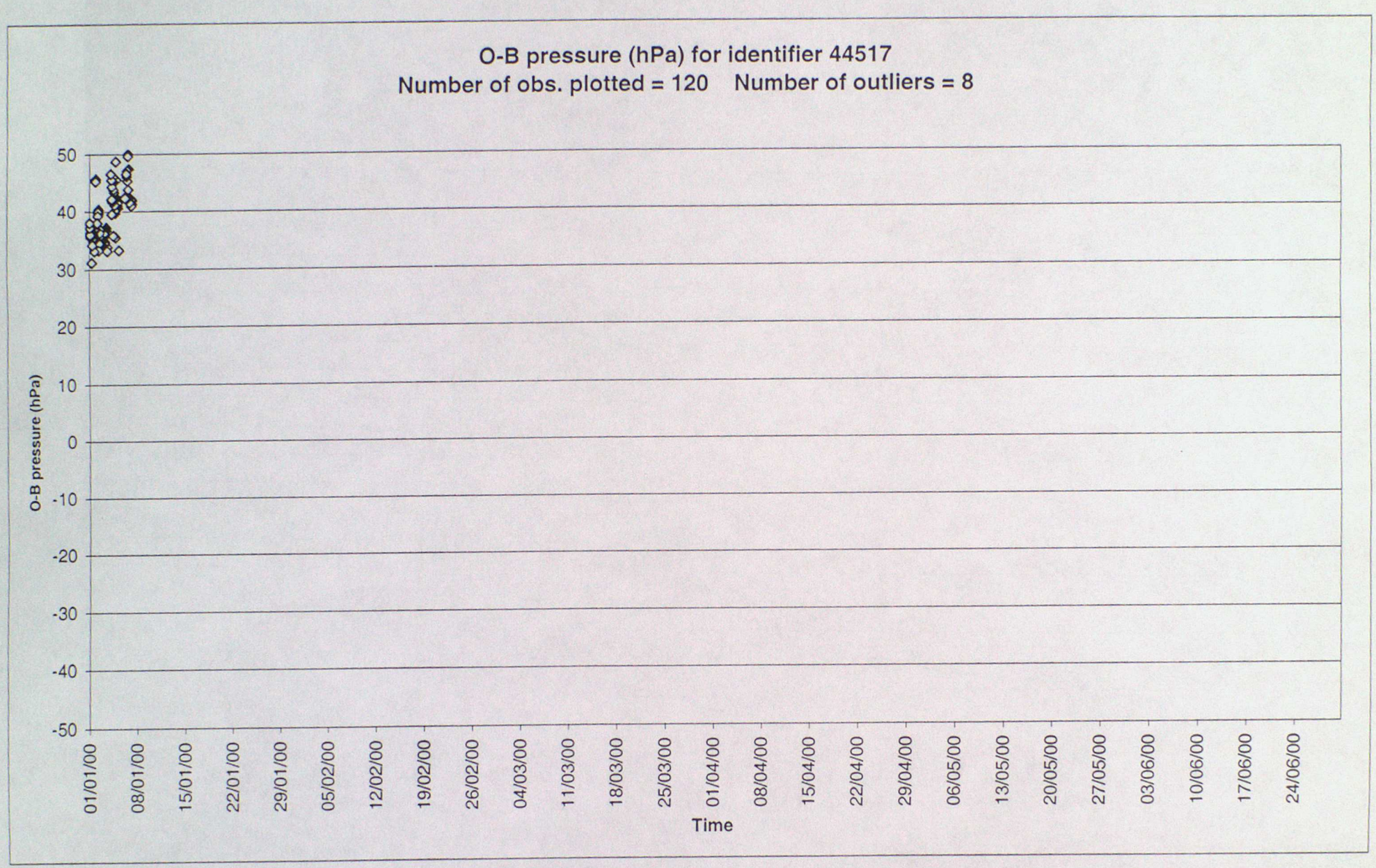

O-B pressure (hPa) for identifier 34915
Number of obs. plotted = 1369 Number of outliers = 0
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

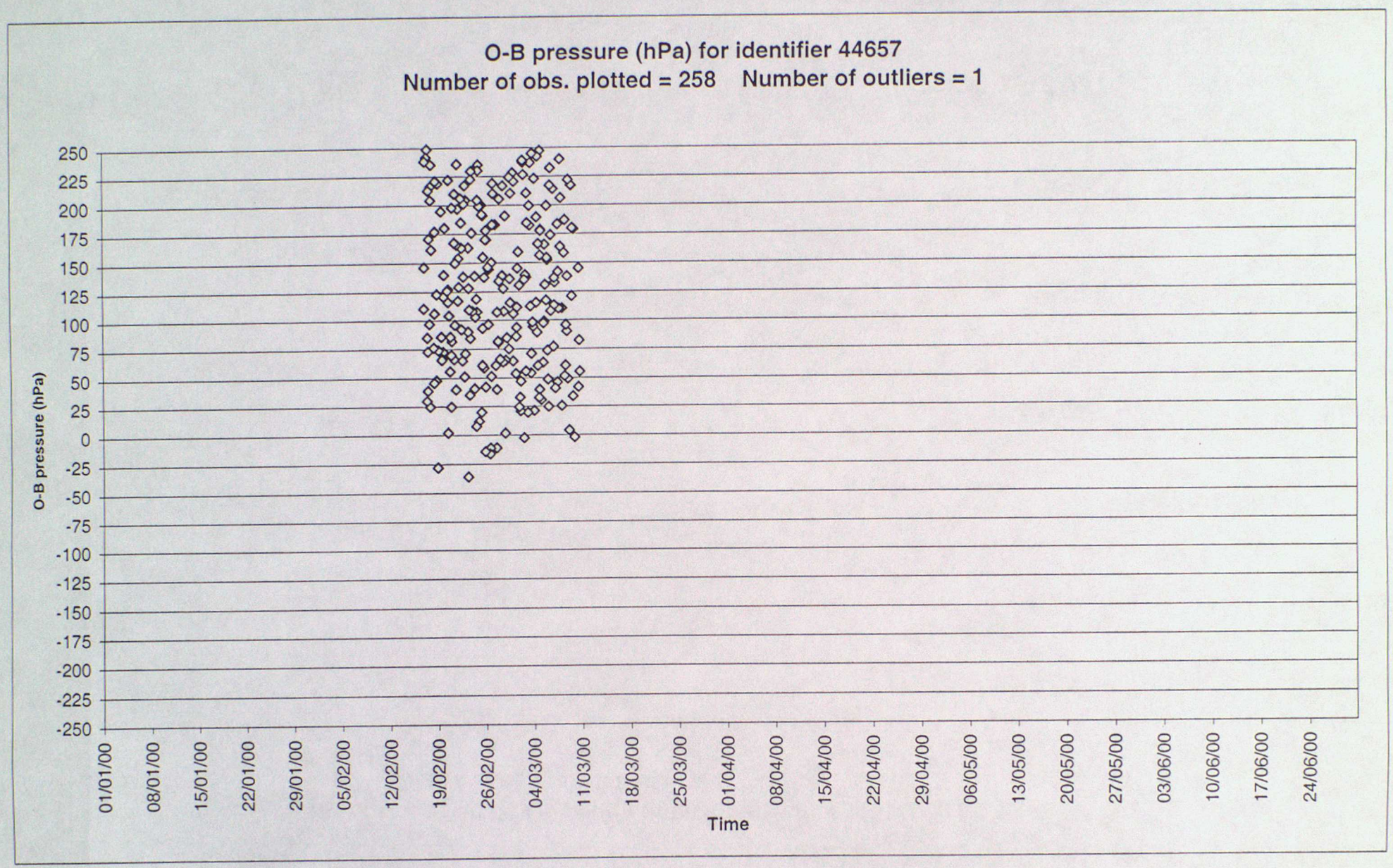

O-B pressure (hPa) for identifier 4XGV
Number of obs. plotted = 163 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 41853
Number of obs. plotted = 717 Number of outliers = 6
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier 44513
Number of obs. plotted = 52 Number of outliers = 2
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier 44516
Number of obs. plotted = 217 Number of outliers = 0
O-B pressure (hPa)
50
40
30
20
10
0
-10
-20
-30
-40
-50
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier 44517
Number of obs. plotted = 120 Number of outliers = 8
O-B pressure (hPa)
50
40
30
20
10
0
-10
-20
-30
-40
-50
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 44657
Number of obs. plotted = 258 Number of outliers = 1
O-B pressure (hPa)
250
225
200
175
150
125
100
75
50
25
0
-25
-50
-75
-100
-125
-150
-175
-200
-225
-250
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier 44766
Number of obs. plotted = 1579 Number of outliers = 14
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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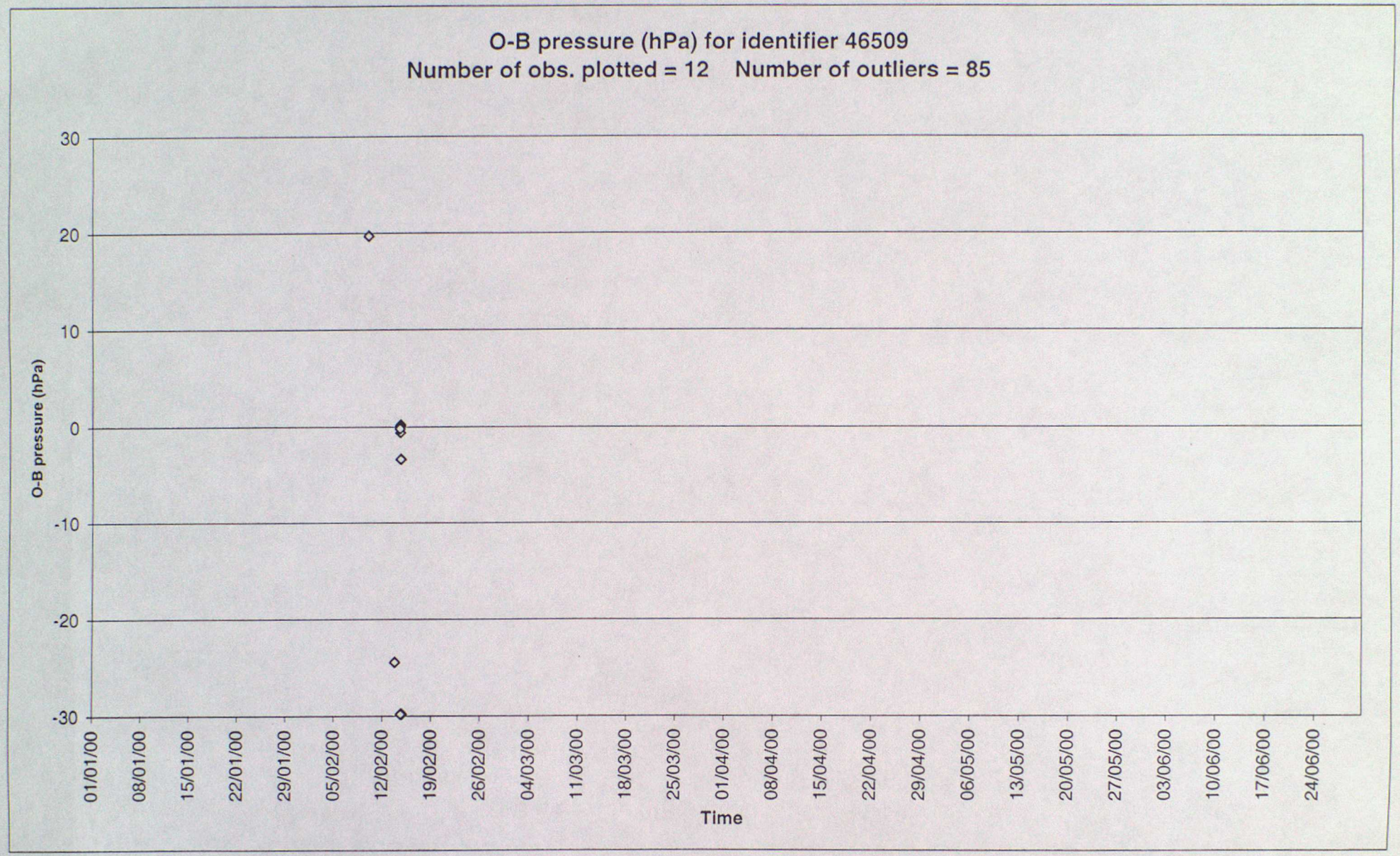
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier 46509
Number of obs. plotted = 12 Number of outliers = 85
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier 46517
Number of obs. plotted = 729 Number of outliers = 1
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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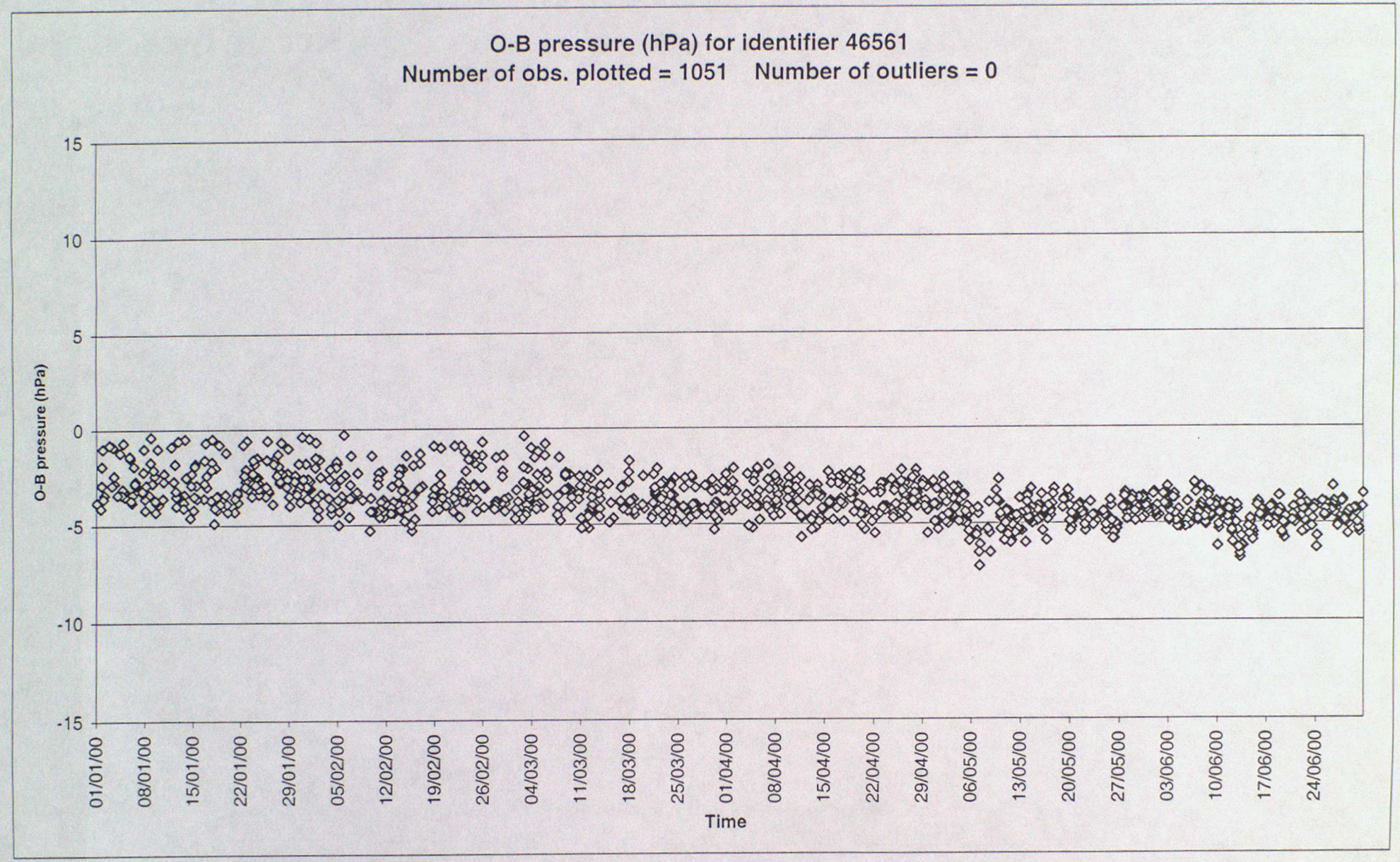
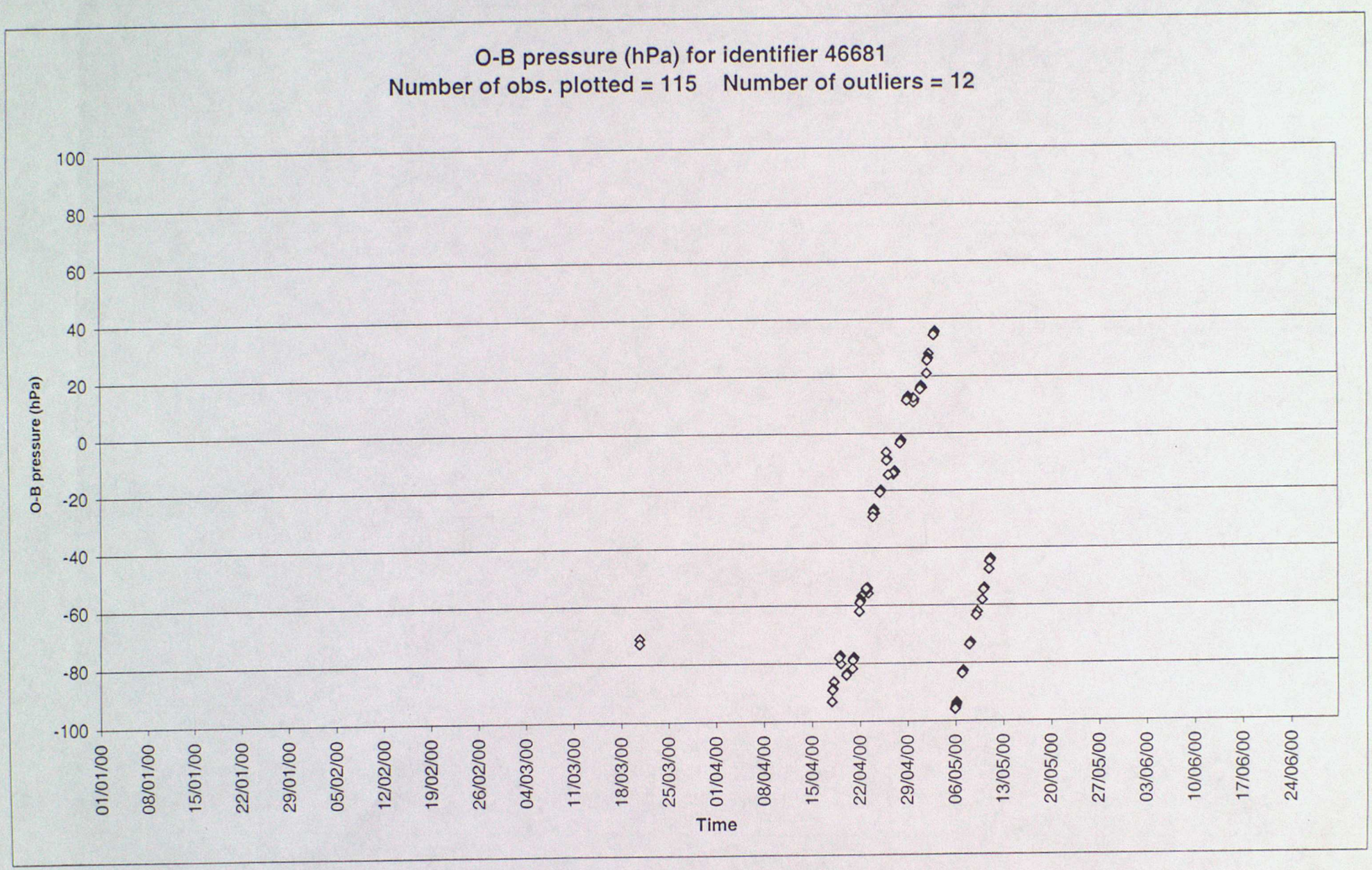
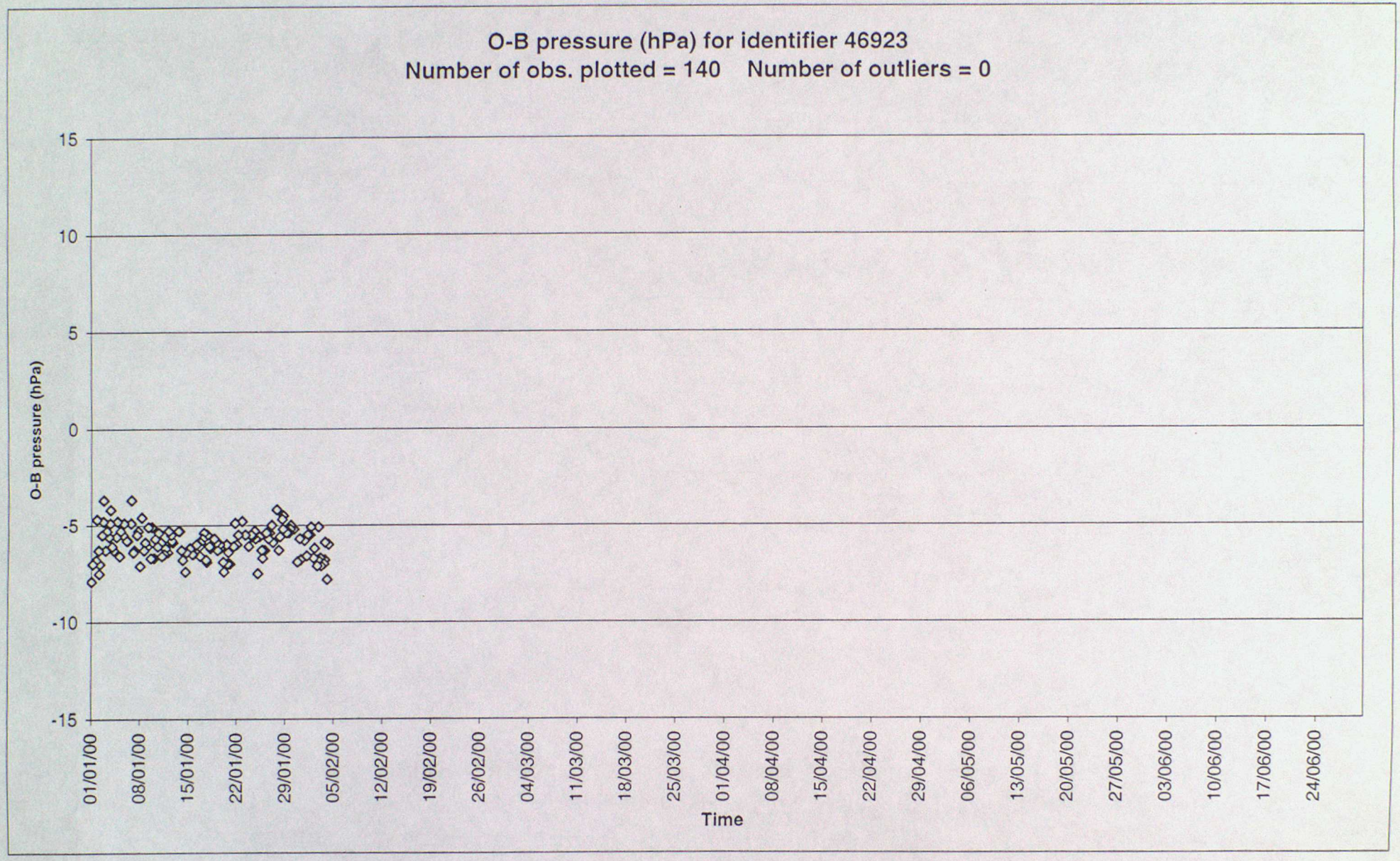
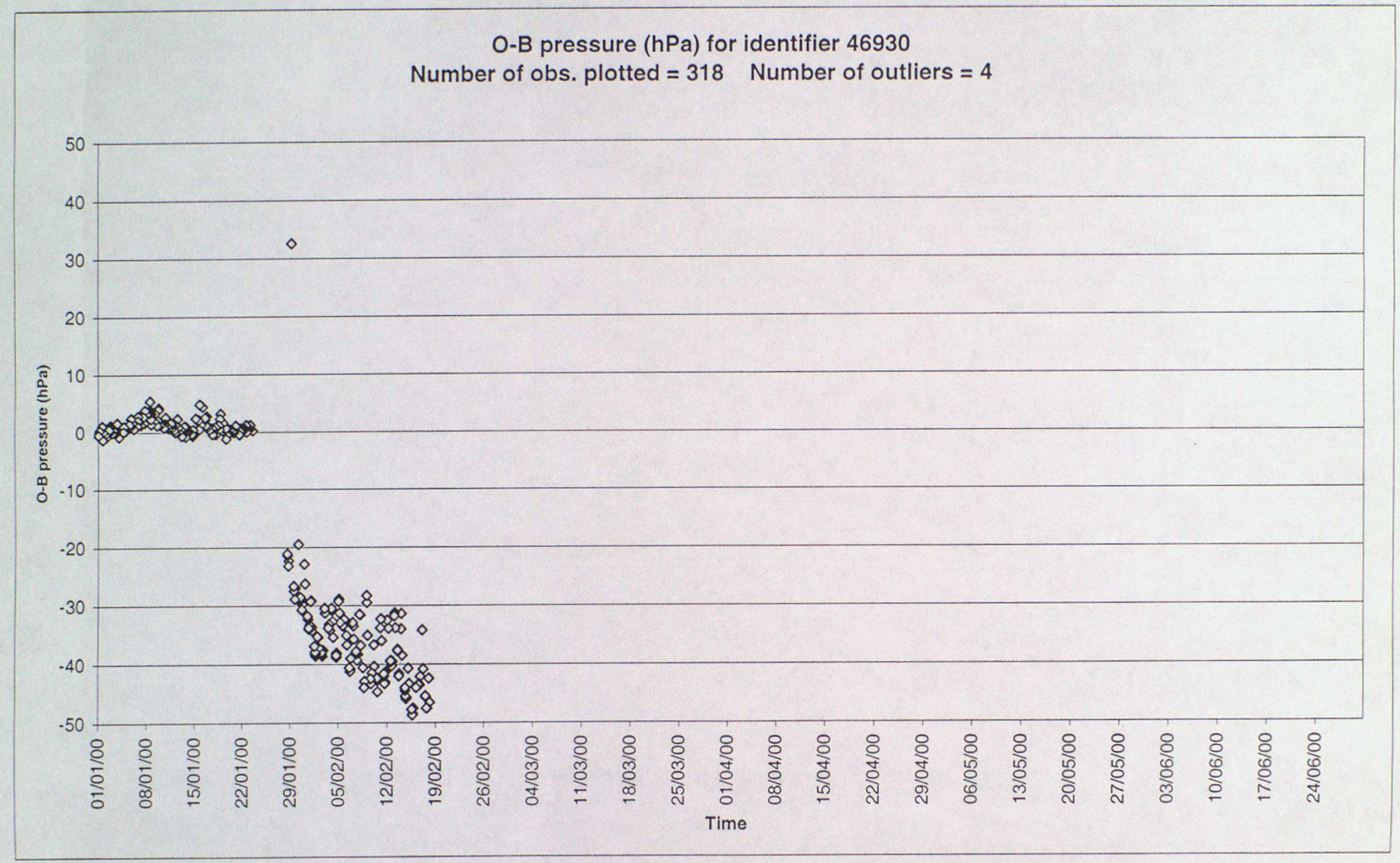
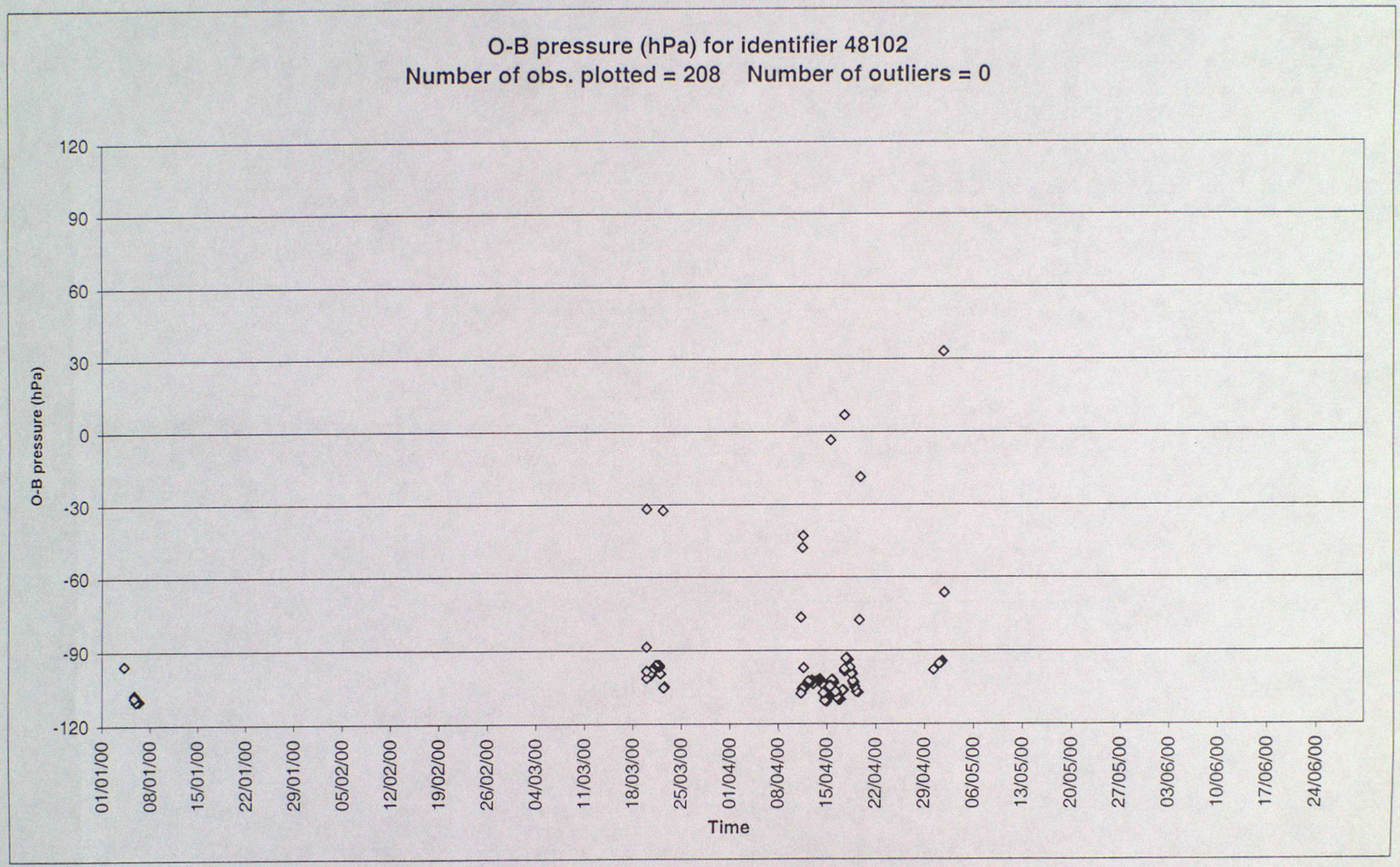
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

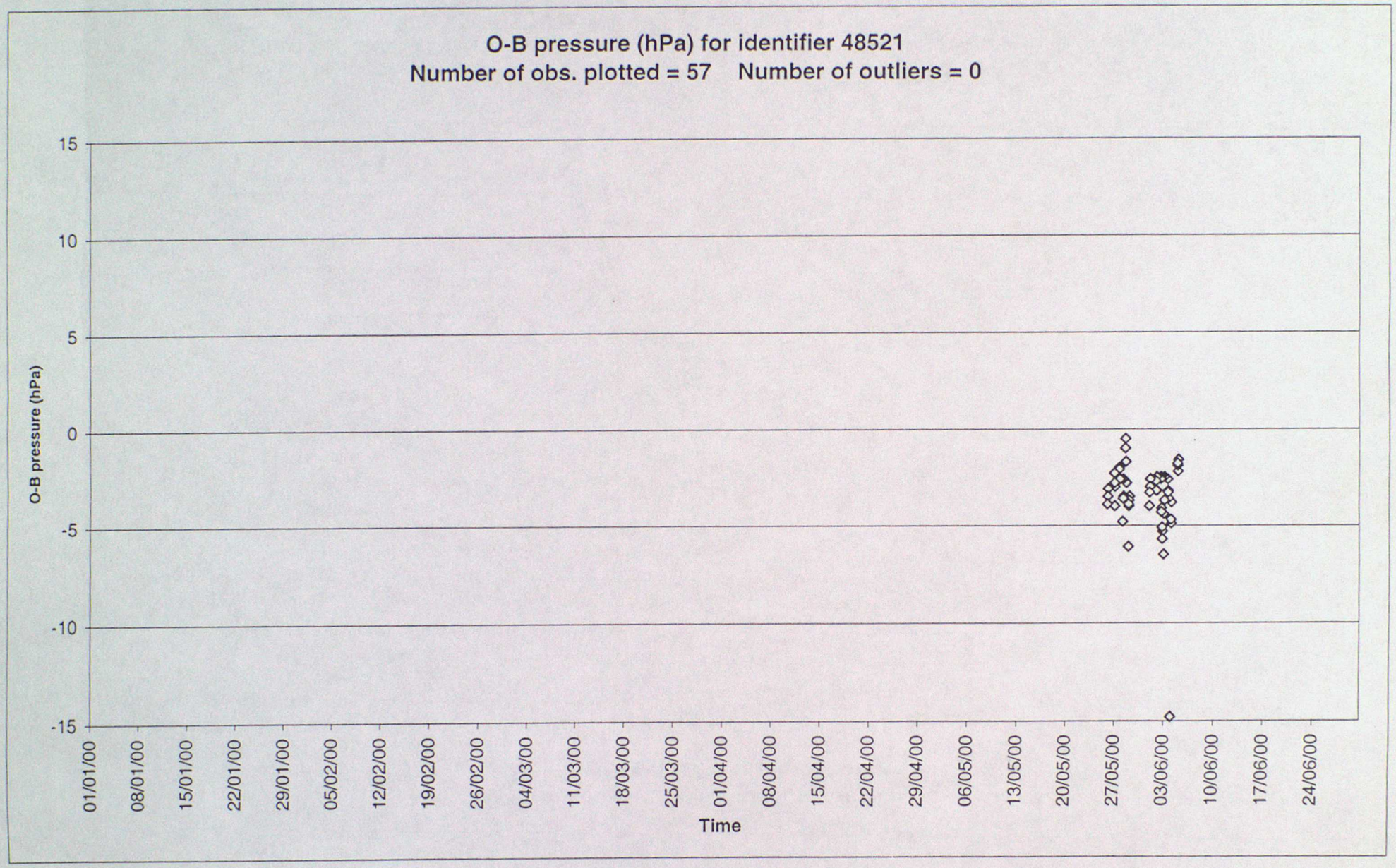

O-B pressure (hPa) for identifier 46561
Number of obs. plotted = 1051 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

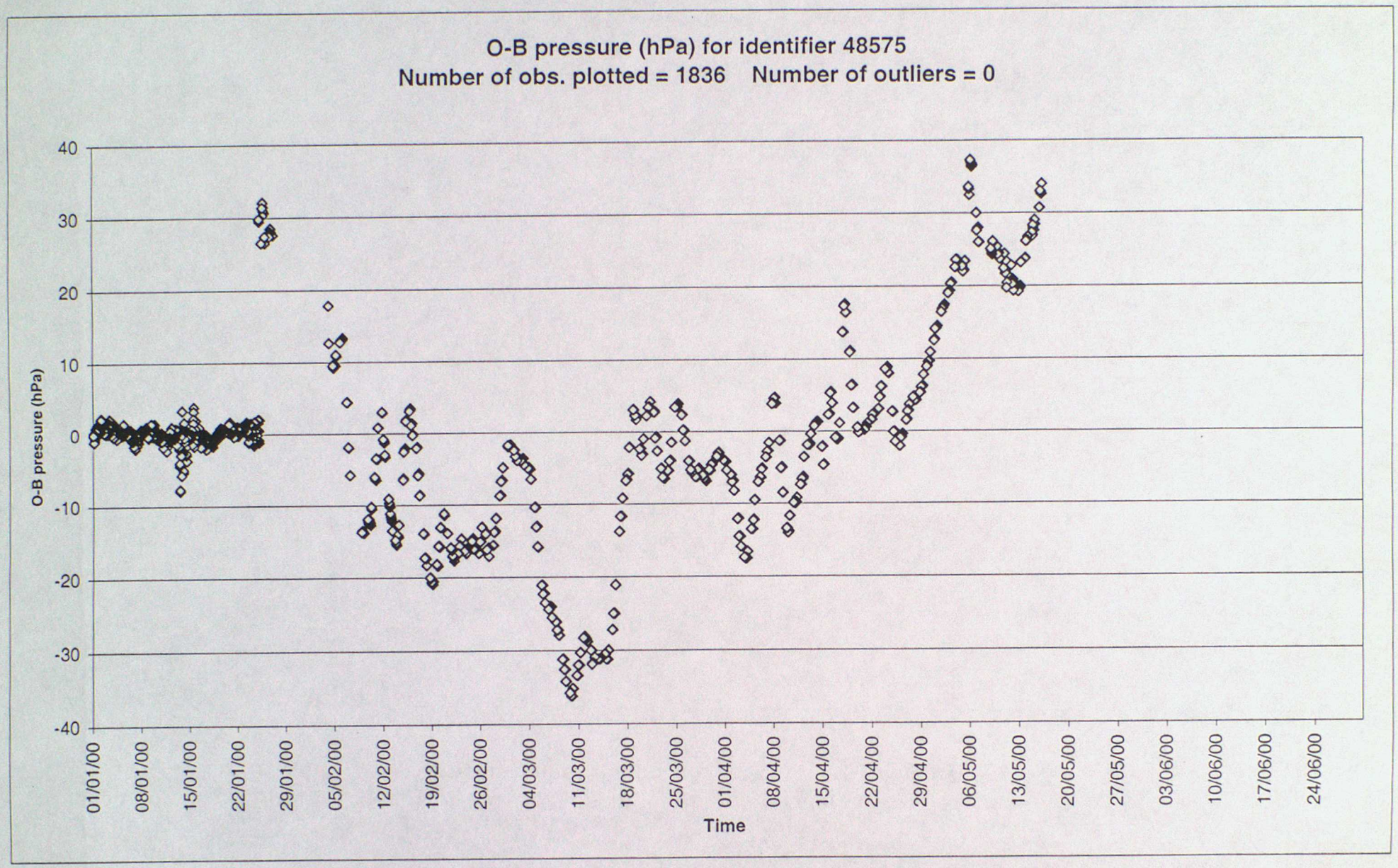

O-B pressure (hPa) for identifier 46681
Number of obs. plotted = 115 Number of outliers = 12
O-B pressure (hPa)
100
80
60
40
20
0
-20
-40
-60
-80
-100
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

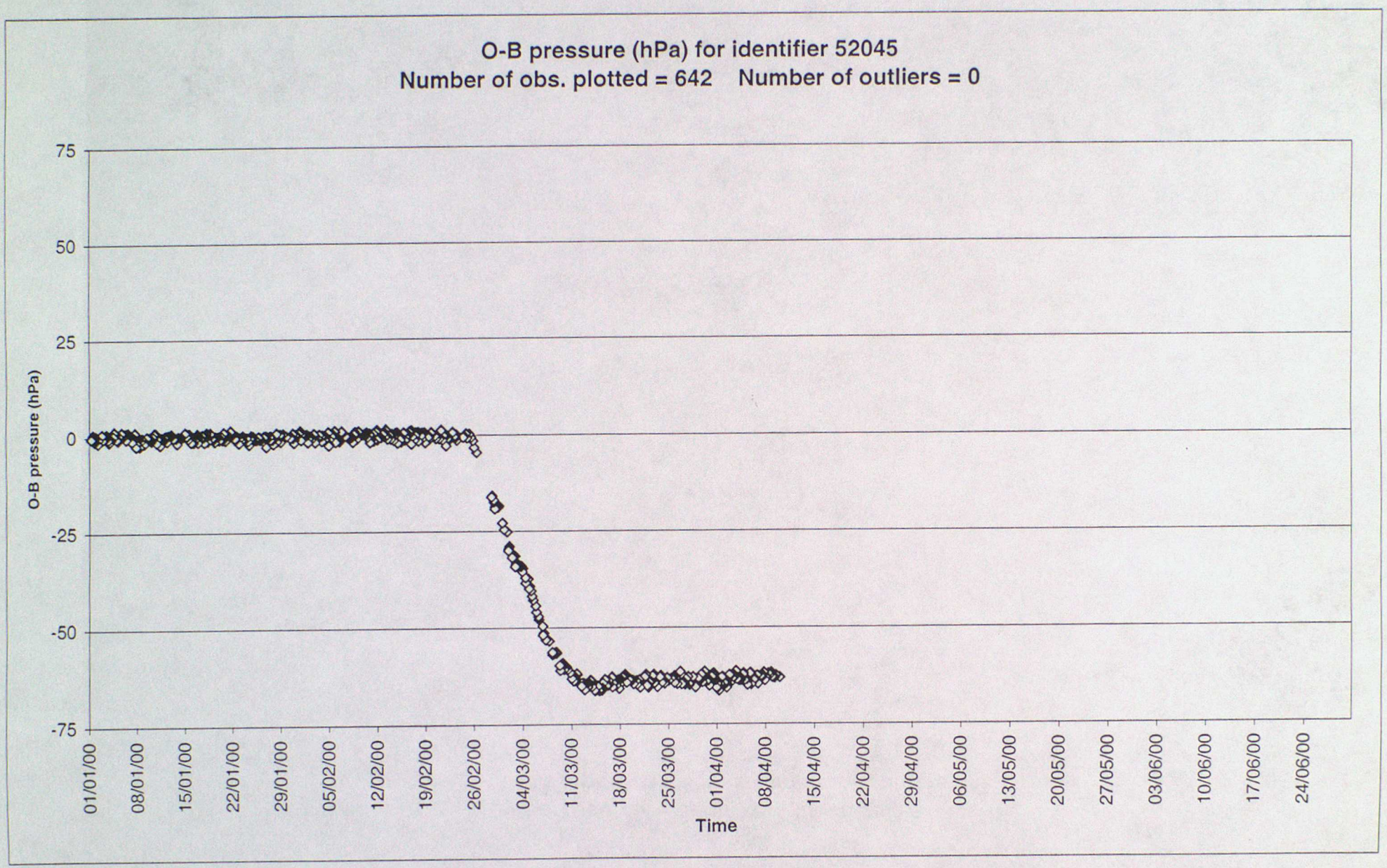

O-B pressure (hPa) for identifier 46923
Number of obs. plotted = 140 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

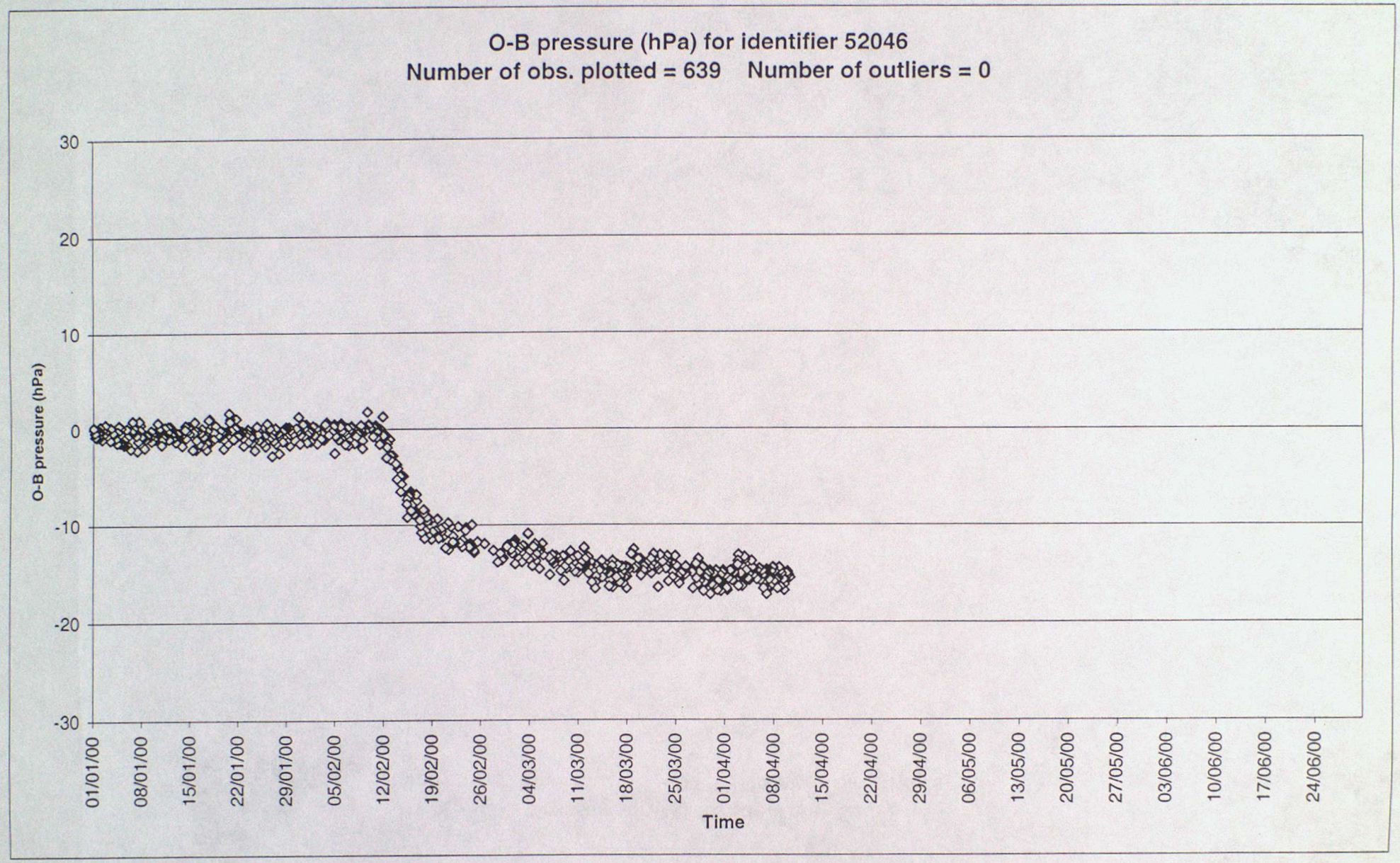

O-B pressure (hPa) for identifier 46930
Number of obs. plotted = 318 Number of outliers = 4
O-B pressure (hPa)
50
40
30
20
10
0
-10
-20
-30
-40
-50
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

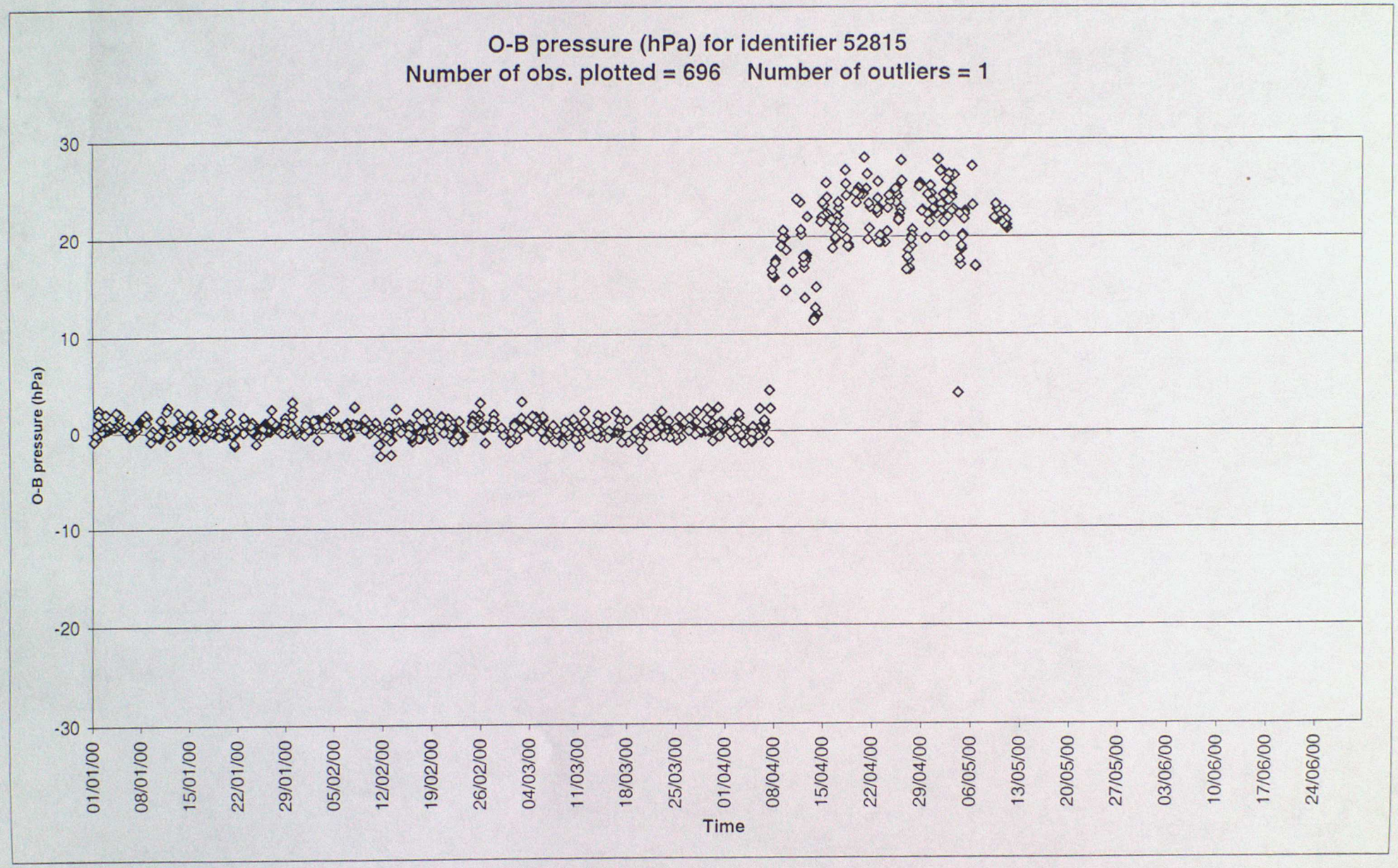

O-B pressure (hPa) for identifier 48102
Number of obs. plotted = 208 Number of outliers = 0
O-B pressure (hPa)
120
90
60
30
0
-30
-60
-90
-120
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 48521
Number of obs. plotted = 57 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

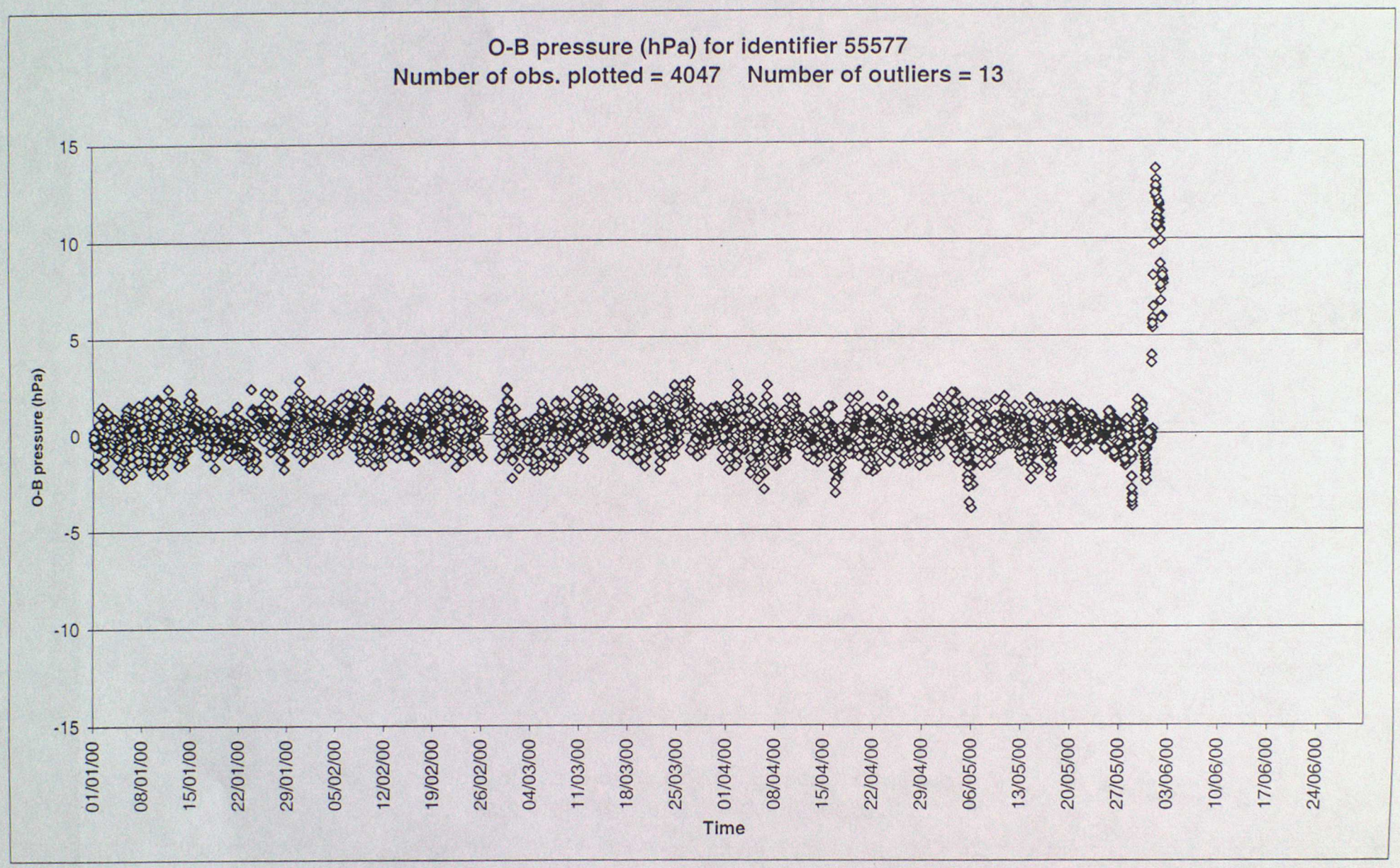

O-B pressure (hPa) for identifier 48575
Number of obs. plotted = 1836 Number of outliers = 0
O-B pressure (hPa)
40
30
20
10
0
-10
-20
-30
-40
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

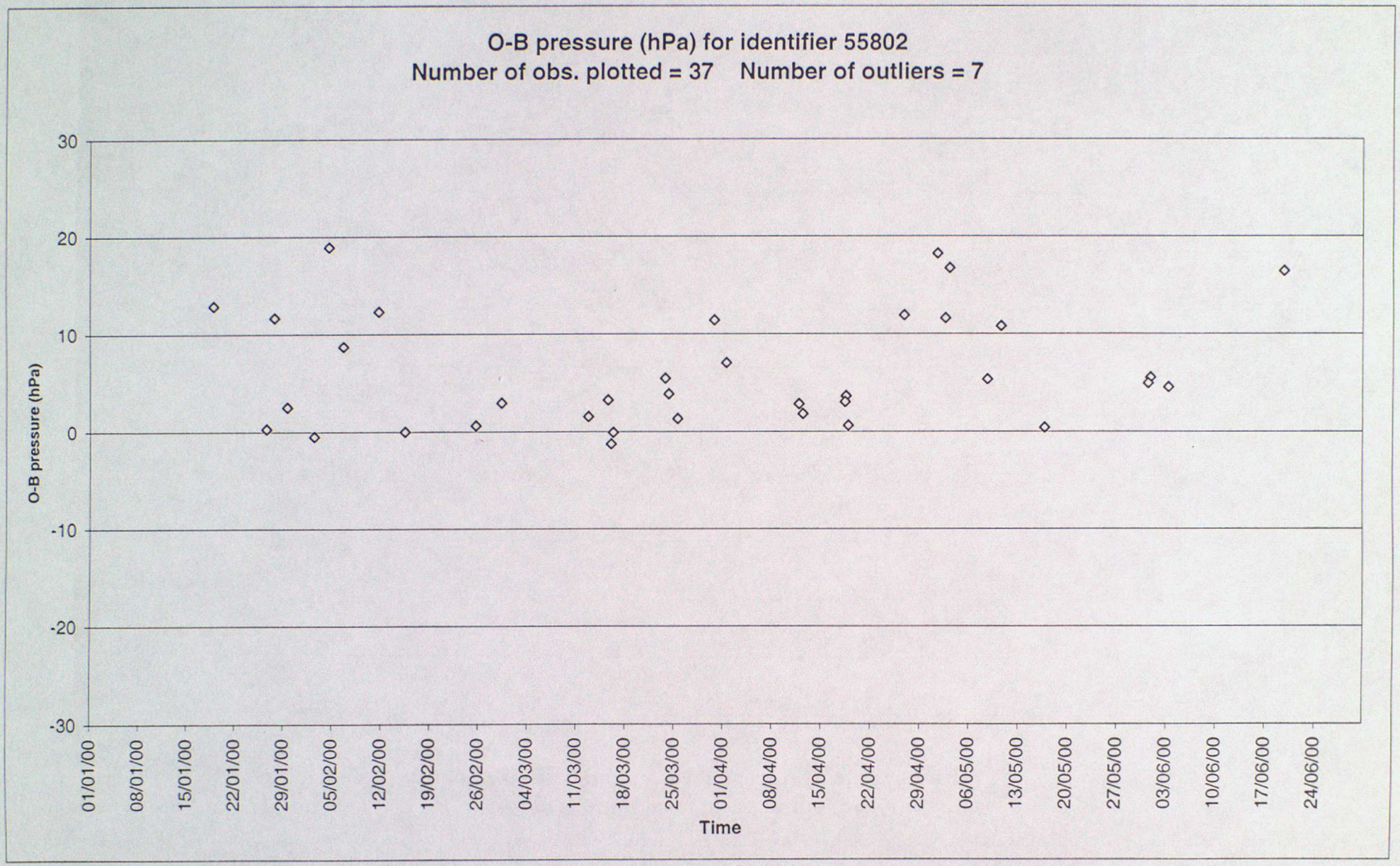

O-B pressure (hPa) for identifier 52045
Number of obs. plotted = 642 Number of outliers = 0
O-B pressure (hPa)
75
50
25
0
-25
-50
-75
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

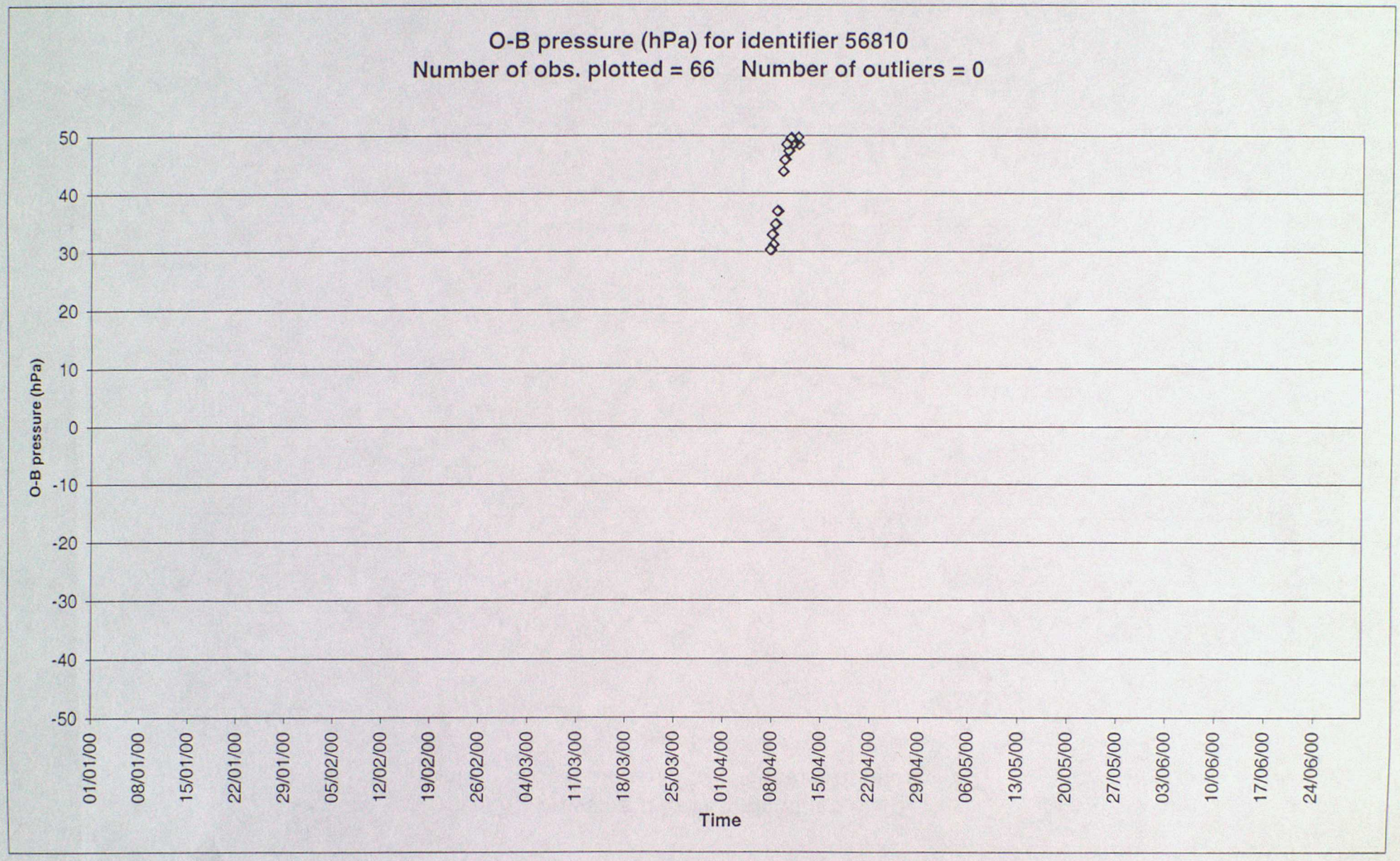

O-B pressure (hPa) for identifier 52046
Number of obs. plotted = 639 Number of outliers = 0
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 52815
Number of obs. plotted = 696 Number of outliers = 1
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

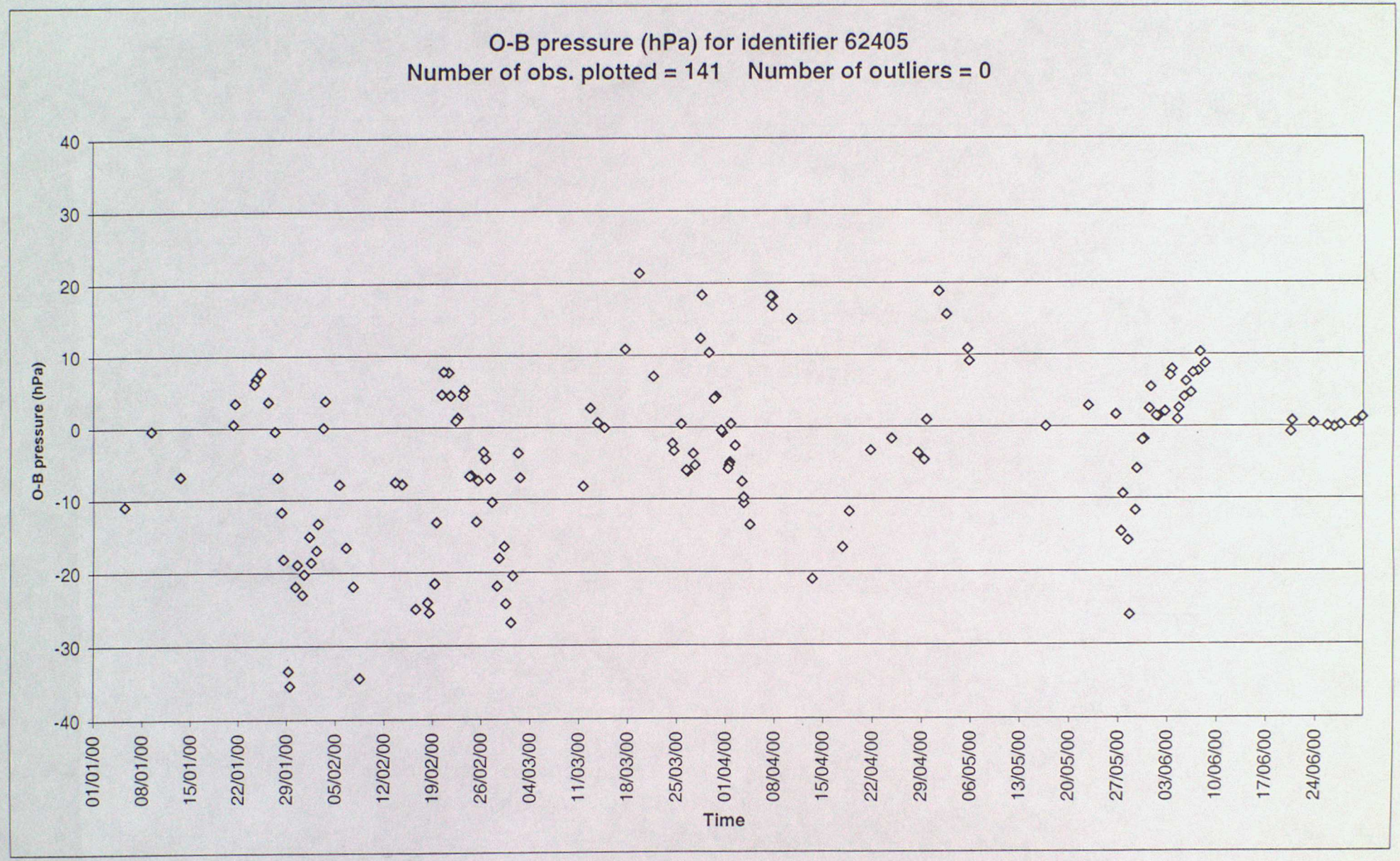
O-B pressure (hPa) for identifier 52905
Number of obs. plotted = 163 Number of outliers = 1
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier 55577
Number of obs. plotted = 4047 Number of outliers = 13
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 55802
Number of obs. plotted = 37 Number of outliers = 7
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 56810
Number of obs. plotted = 66 Number of outliers = 0
O-B pressure (hPa)
50
40
30
20
10
0
-10
-20
-30
-40
-50
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier 61534
Number of obs. plotted = 1295 Number of outliers = 49
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

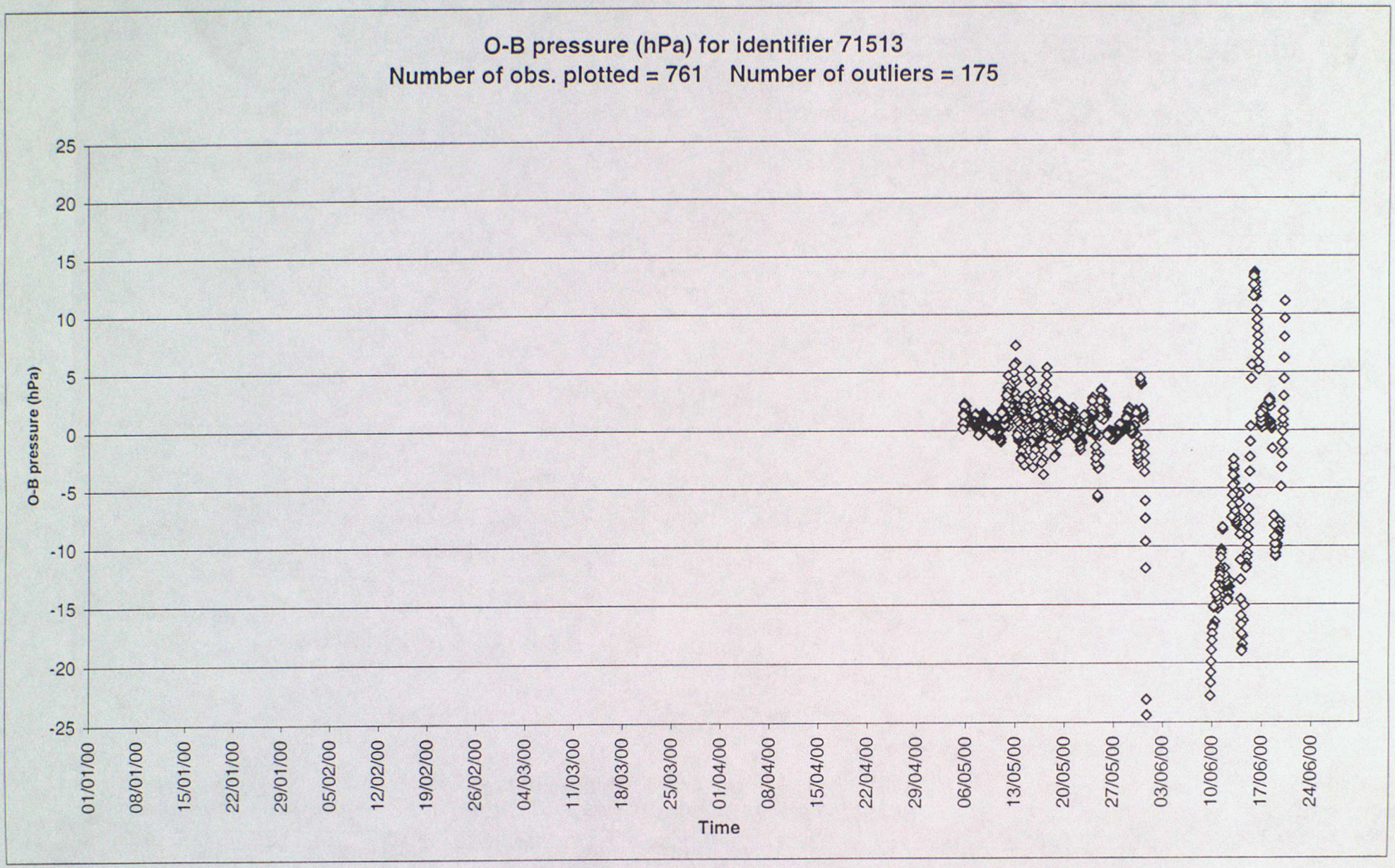

O-B pressure (hPa) for identifier 62405
Number of obs. plotted = 141 Number of outliers = 0
O-B pressure (hPa)
40
30
20
10
0
-10
-20
-30
-40
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

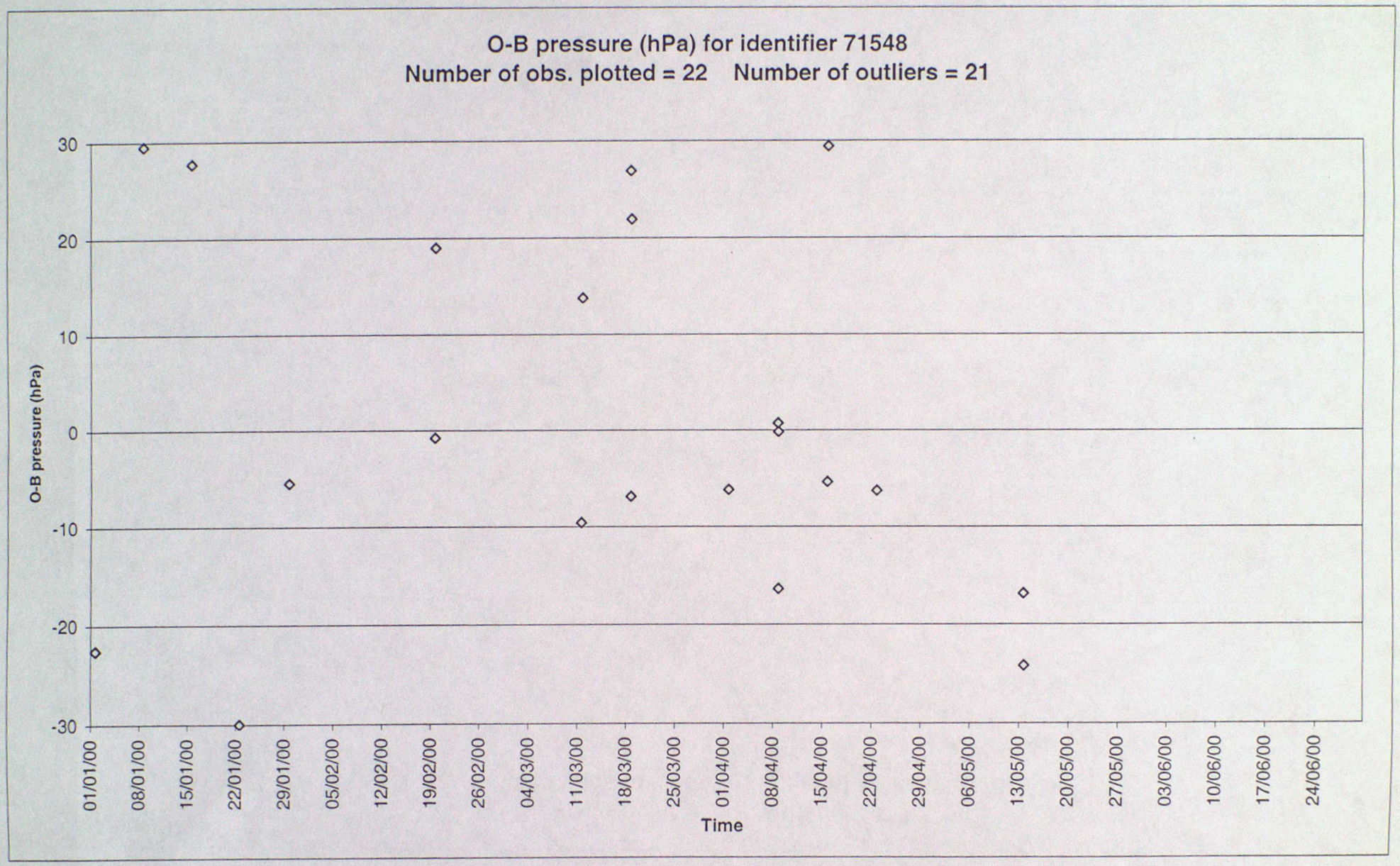
O-B pressure (hPa) for identifier 62510
Number of obs. plotted = 500 Number of outliers = 4
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

O-B pressure (hPa) for identifier 62554
Number of obs. plotted = 115 Number of outliers = 0
O-B pressure (hPa)
120
90
60
30
0
-30
-60
-90
-120
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

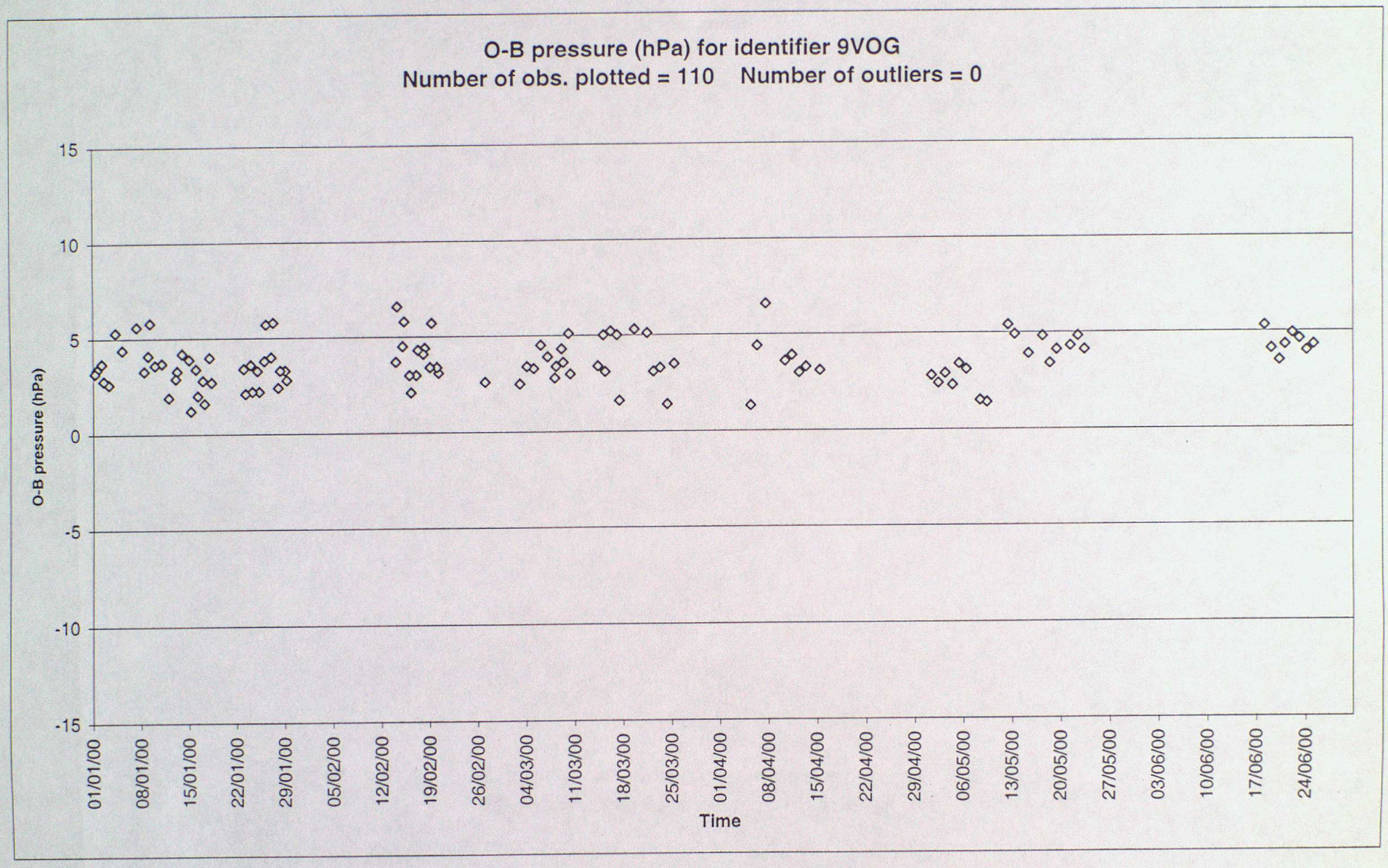
O-B pressure (hPa) for identifier 64516
Number of obs. plotted = 1324 Number of outliers = 10
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

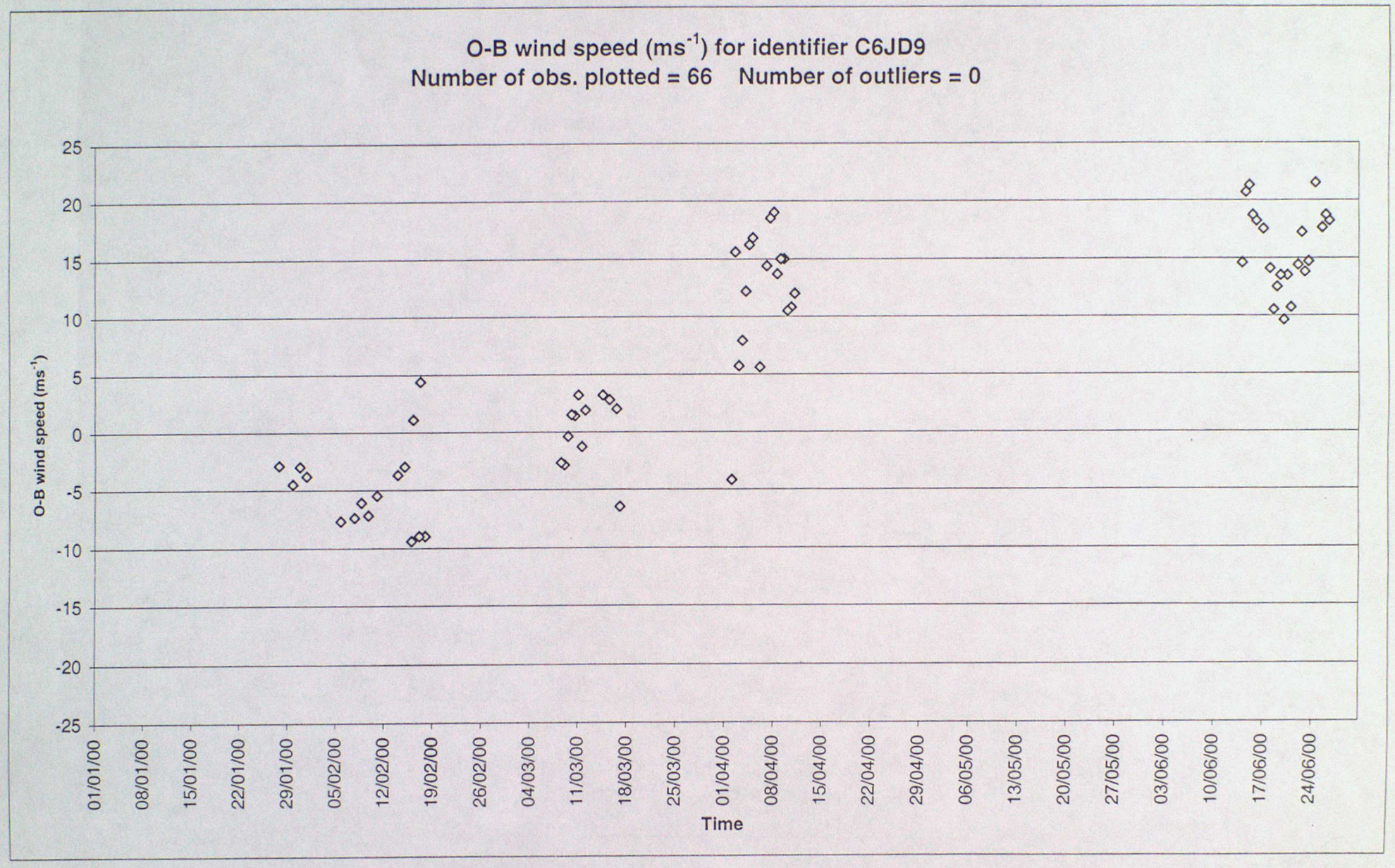
O-B pressure (hPa) for identifier 65594
Number of obs. plotted = 1128 Number of outliers = 155
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00


O-B pressure (hPa) for identifier 71513
Number of obs. plotted = 761 Number of outliers = 175
O-B pressure (hPa)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B pressure (hPa) for identifier 71548
Number of obs. plotted = 22 Number of outliers = 21
O-B pressure (hPa)
30
20
10
0
-10
-20
-30
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B pressure (hPa) for identifier 8PNI
Number of obs. plotted = 98 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

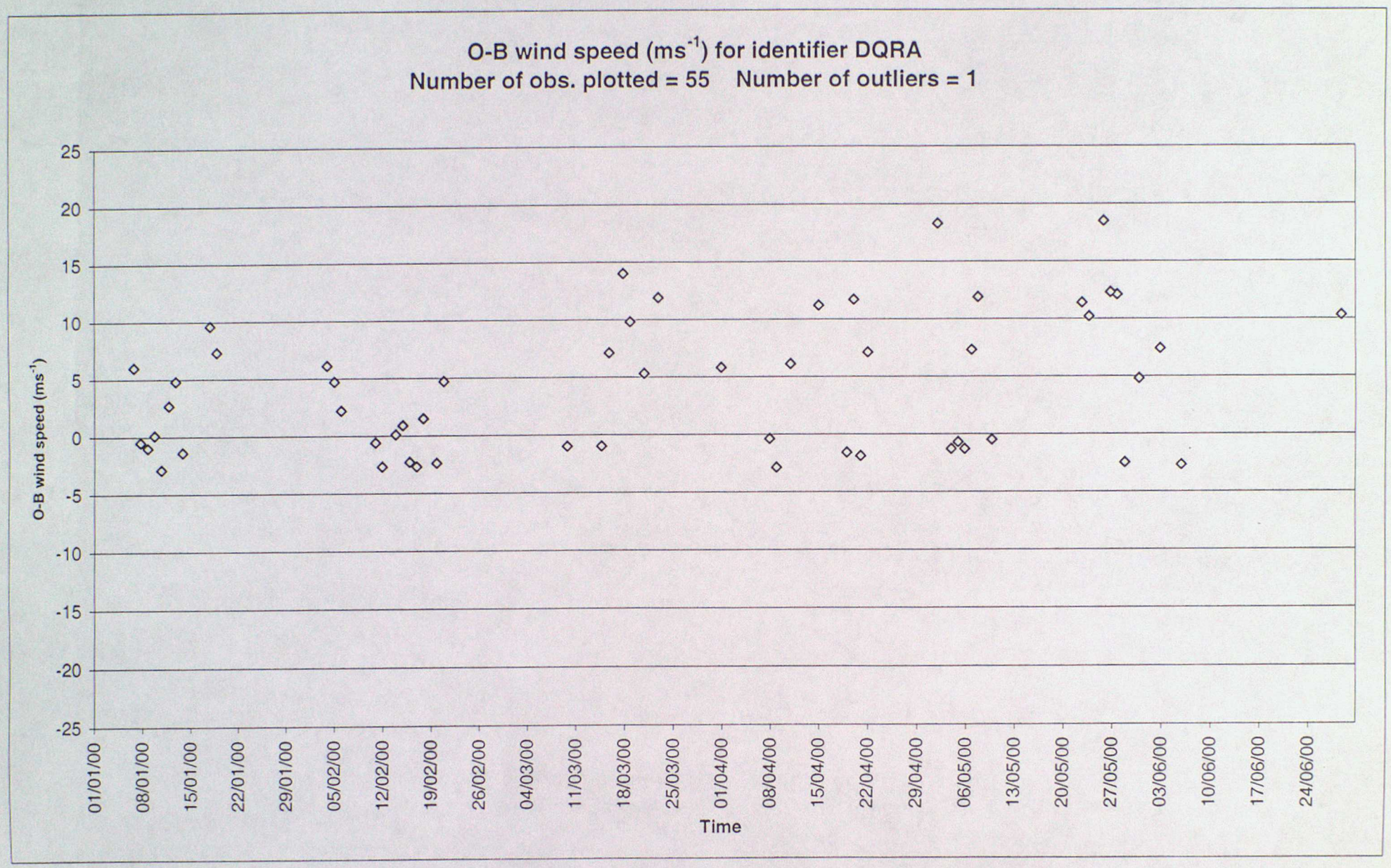

O-B pressure (hPa) for identifier 9VOG
Number of obs. plotted = 110 Number of outliers = 0
O-B pressure (hPa)
15
10
5
0
-5
-10
-15
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

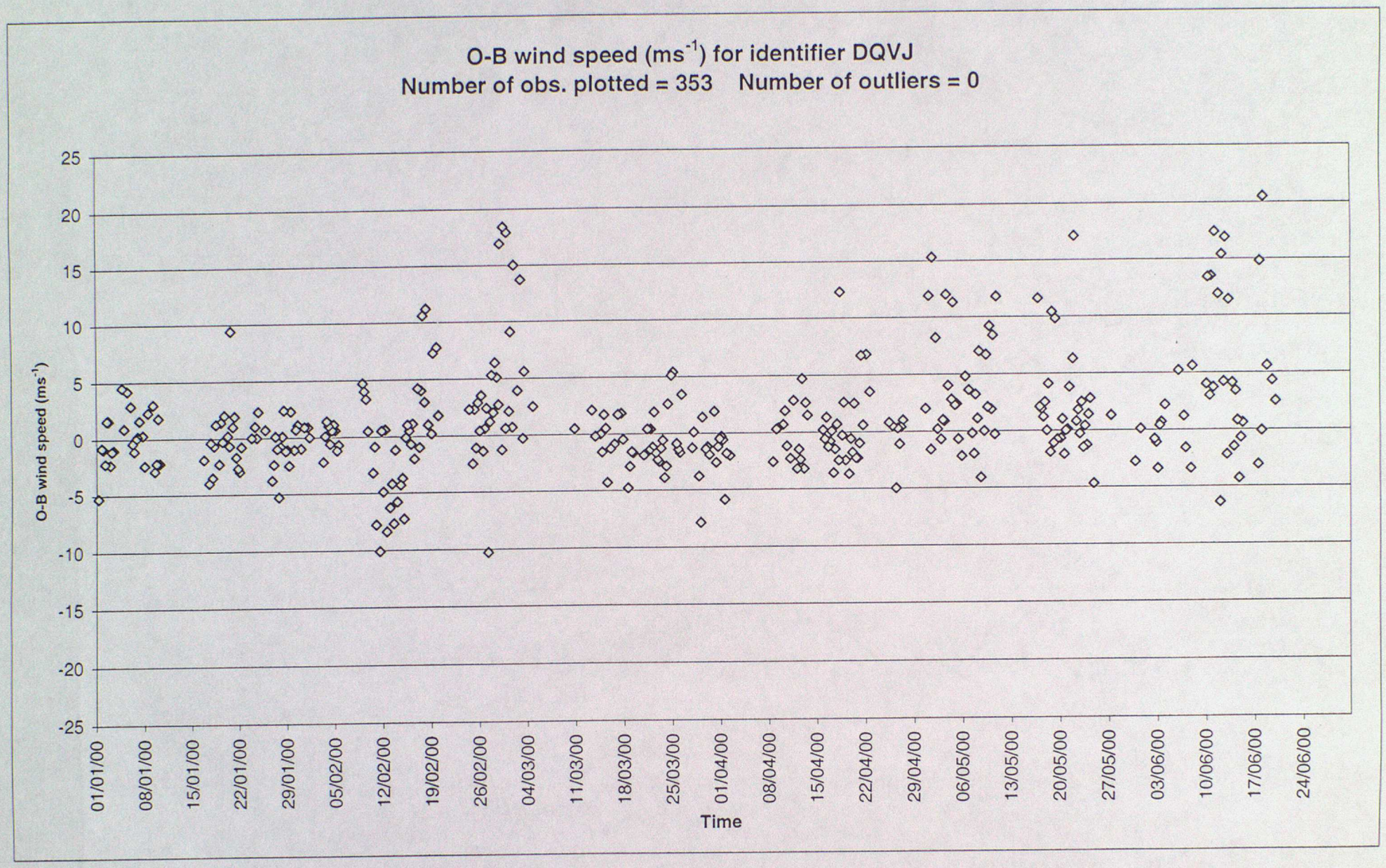

O-B wind speed (ms-1) for identifier C6JD9
Number of obs. plotted = 66 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

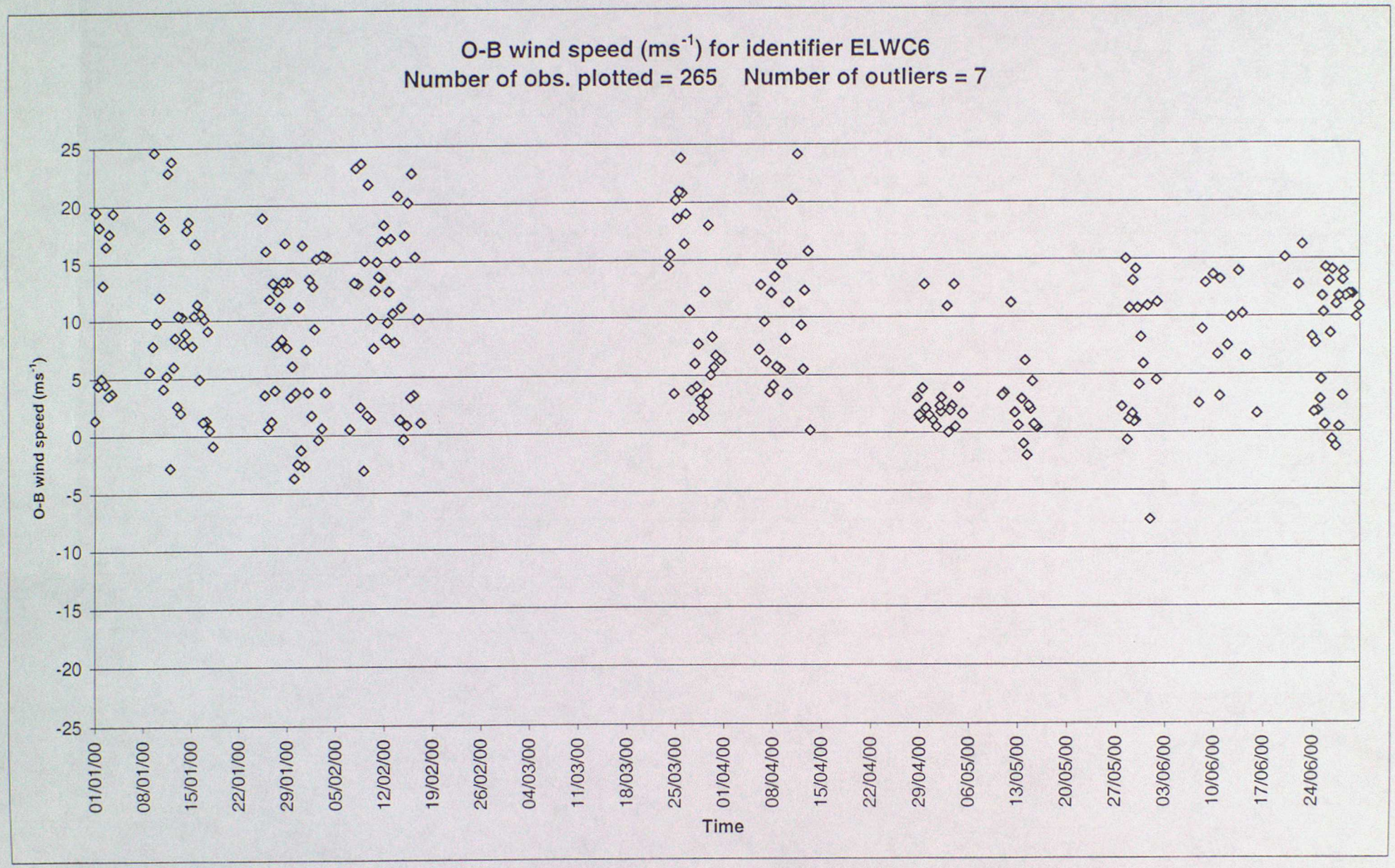
O-B wind speed (ms-1) for identifier C6NI3
Number of obs. plotted = 196 Number of outliers = 1
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00

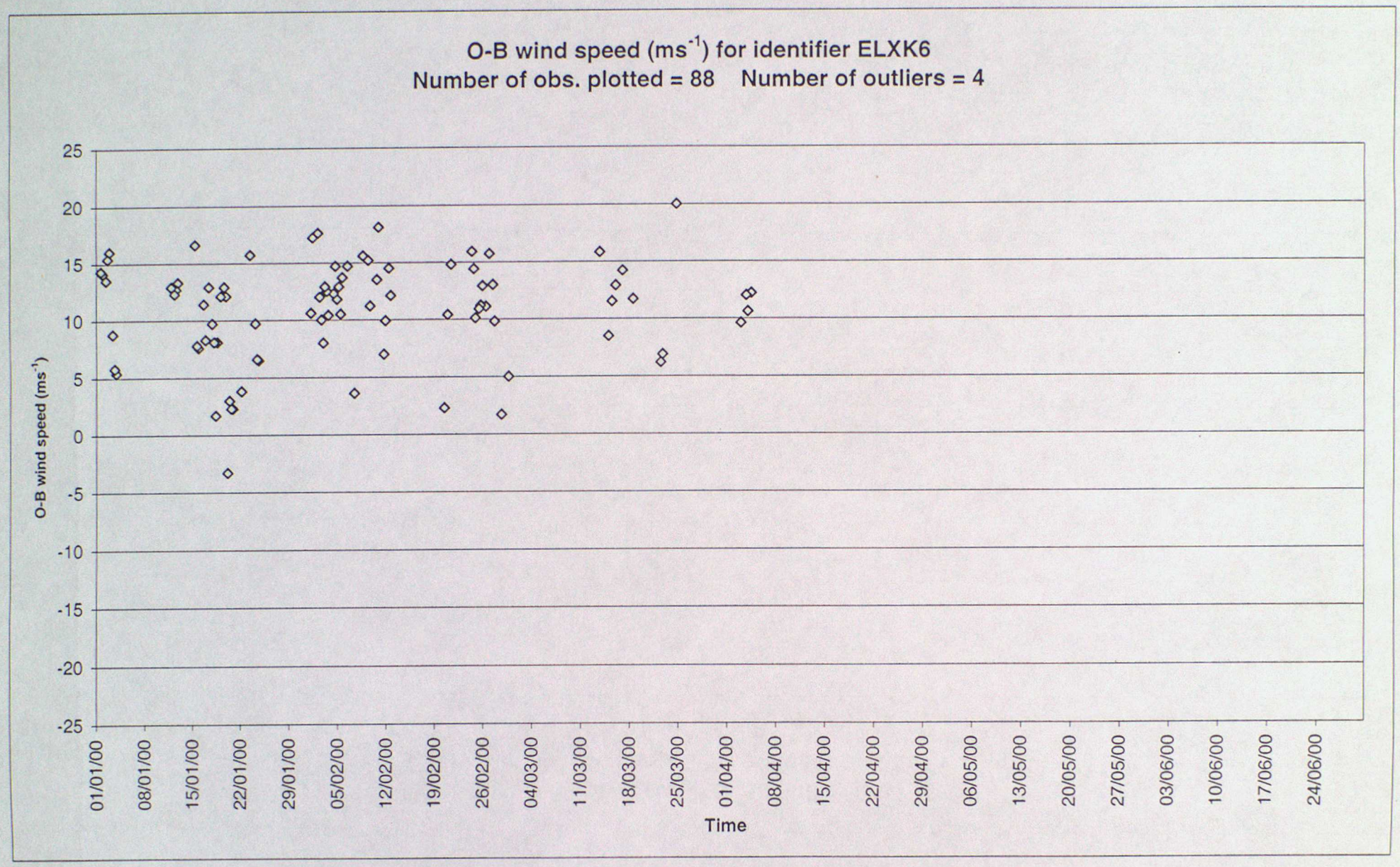
O-B wind speed (ms-1) for identifier DGCDFD
Number of obs. plotted = 198 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

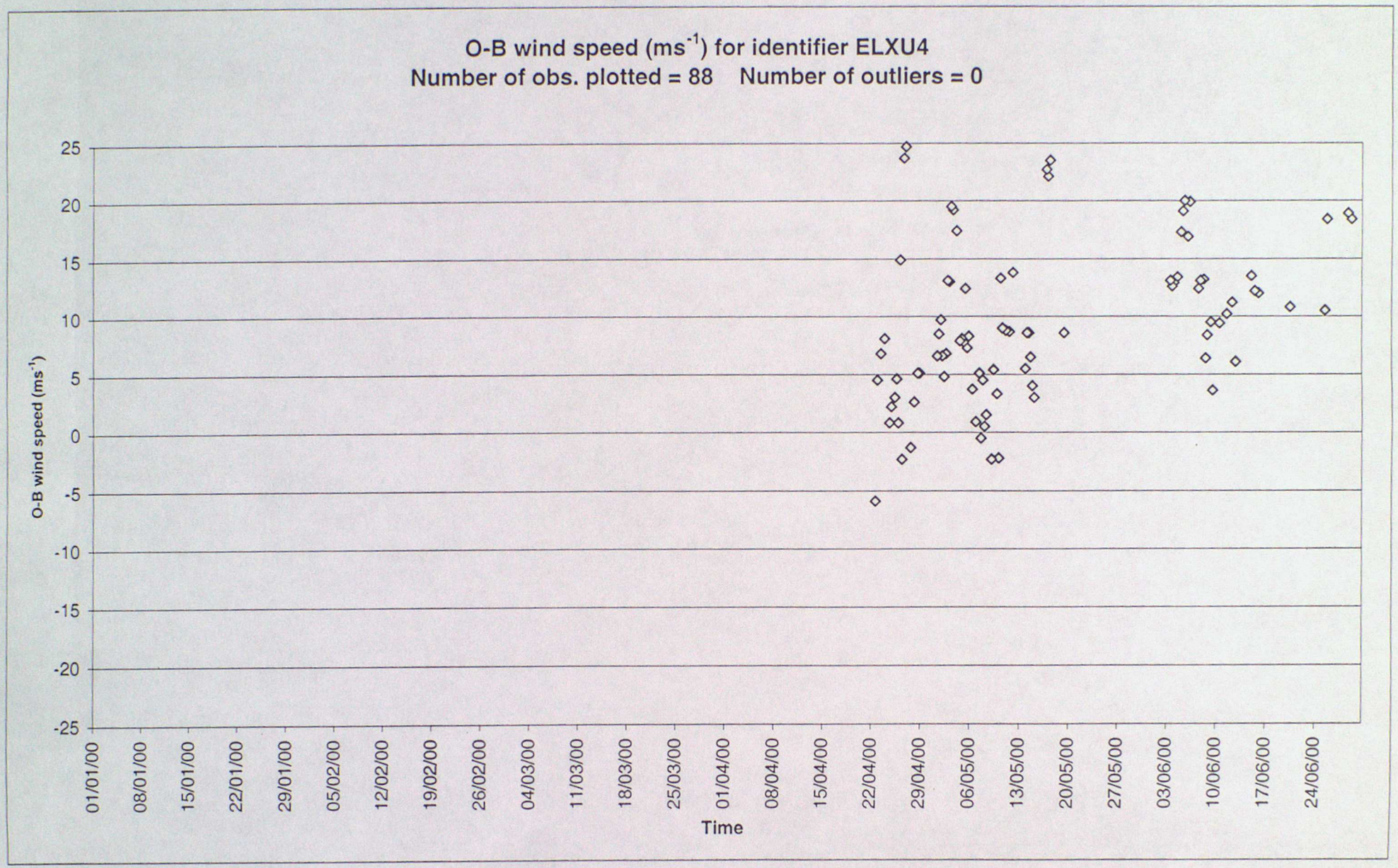
O-B wind speed (ms-1) for identifier DGFA
Number of obs. plotted = 48 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

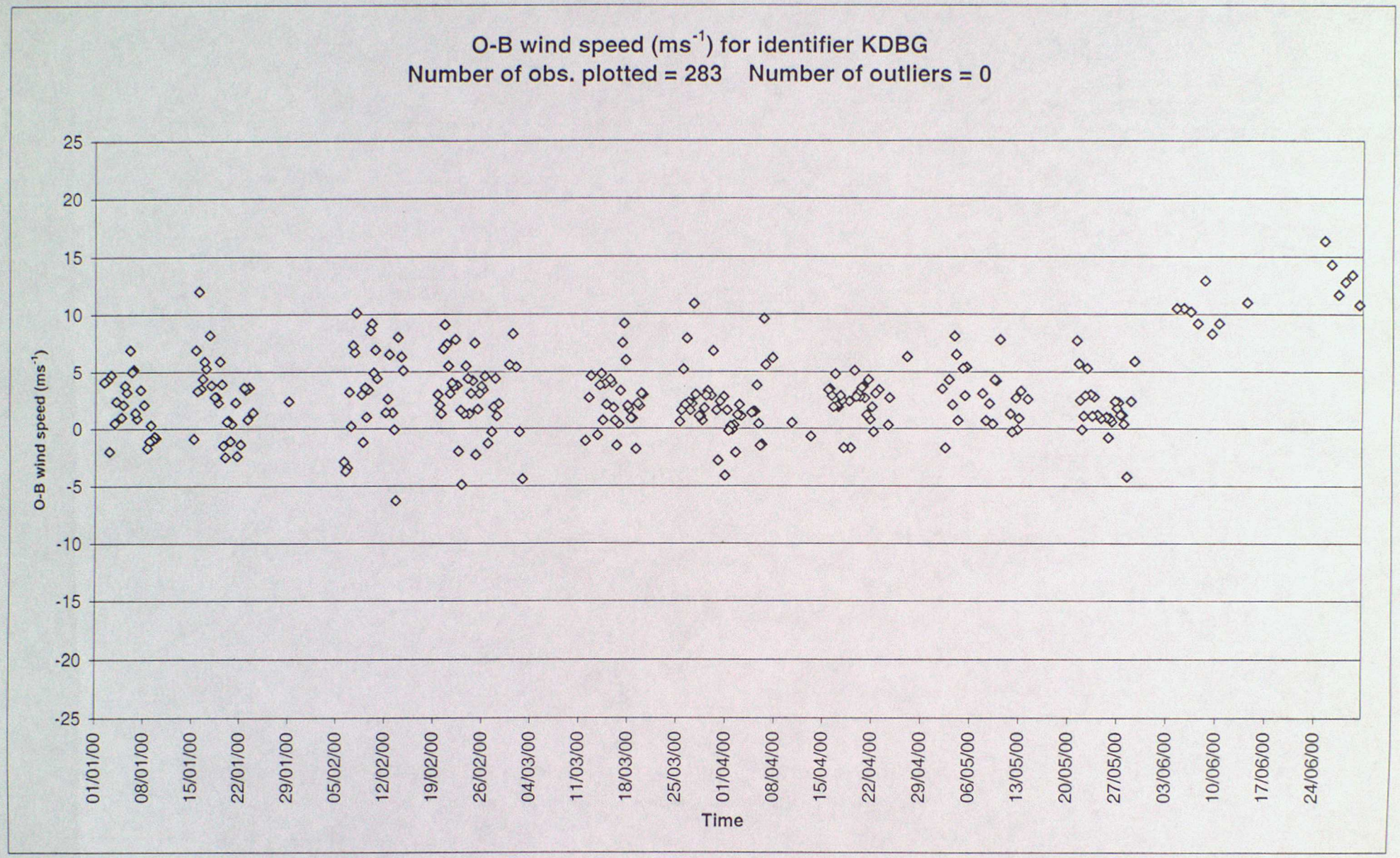

O-B wind speed (ms-1) for identifier DQRA
Number of obs. plotted = 55 Number of outliers = 1
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind speed (ms-1) for identifier DQVJ
Number of obs. plotted = 353 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

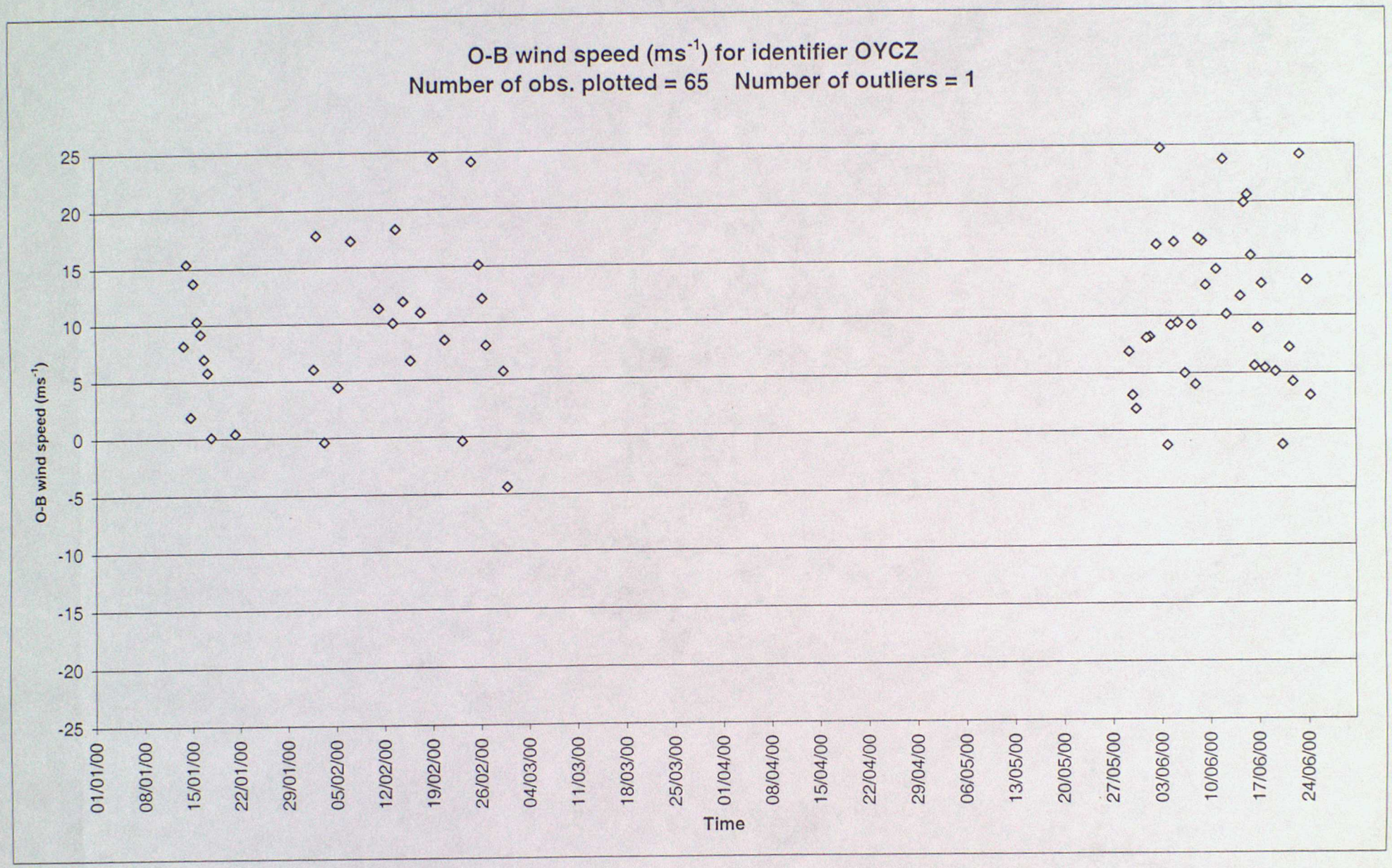

O-B wind speed (ms-1) for identifier ELWC6
Number of obs. plotted = 265 Number of outliers = 7
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind speed (ms-1) for identifier ELXK6
Number of obs. plotted = 88 Number of outliers = 4
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

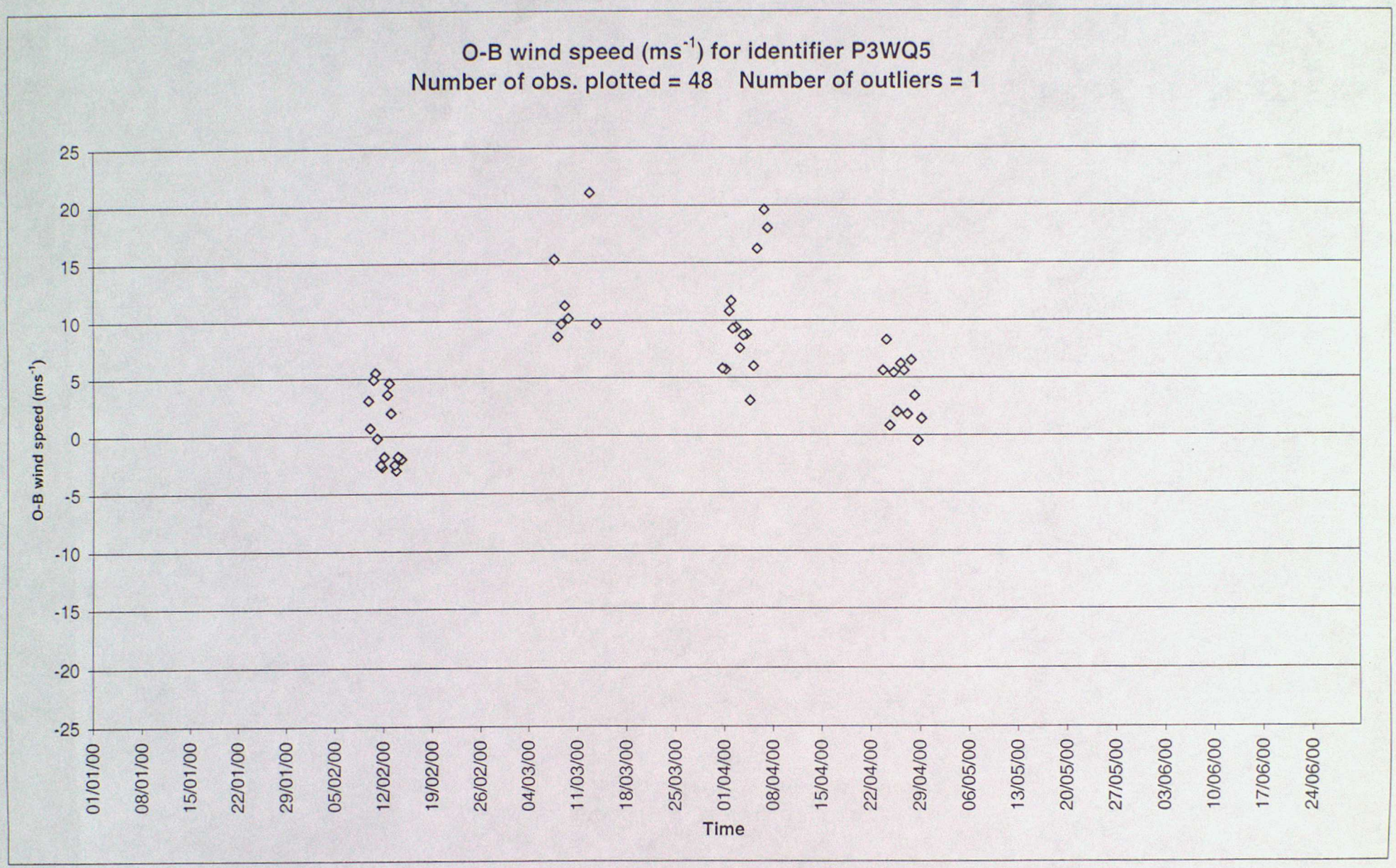

O-B wind speed (ms-1) for identifier ELXU4
Number of obs. plotted = 88 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

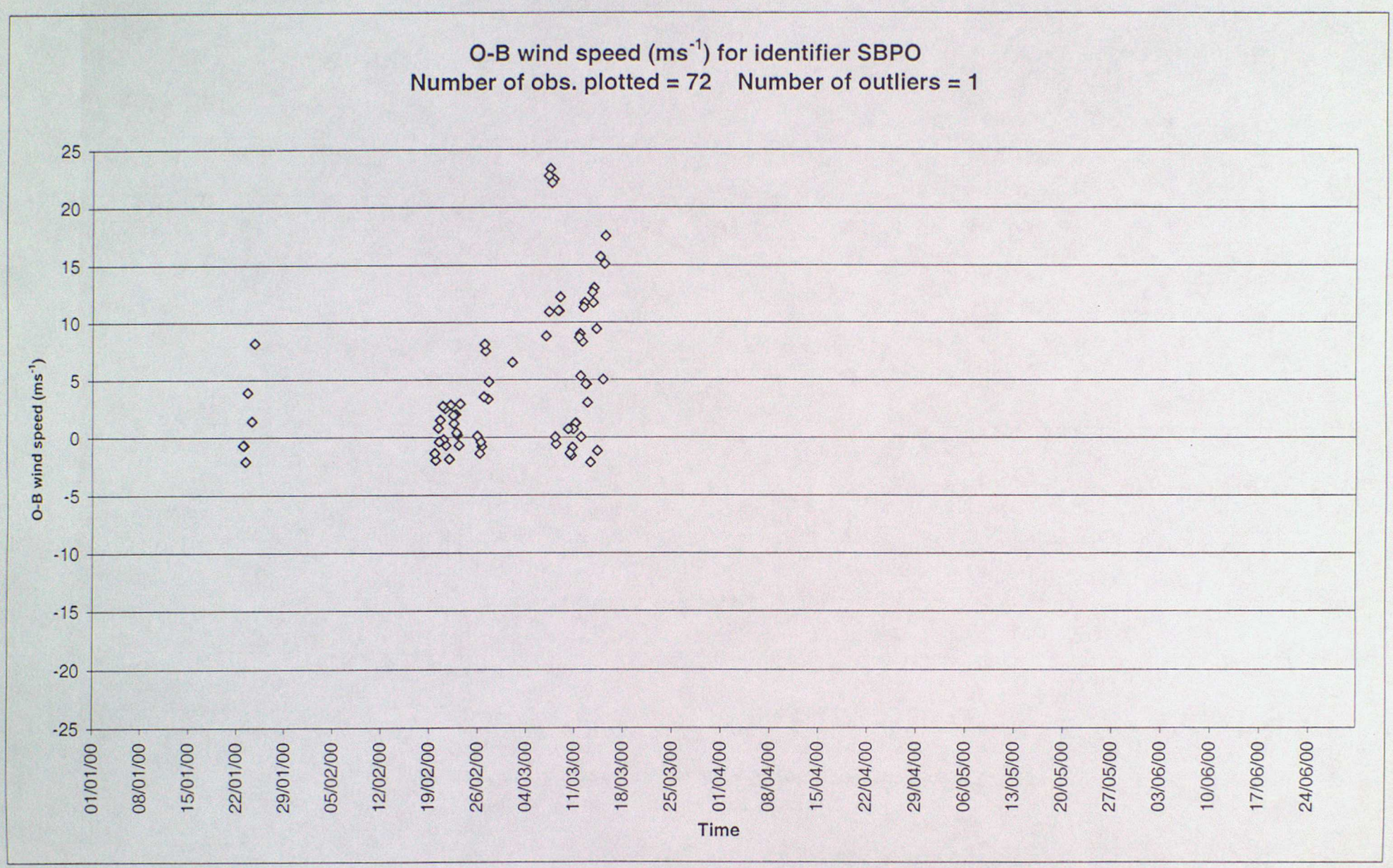

O-B wind speed (ms-1) for identifier KDBG
Number of obs. plotted = 283 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

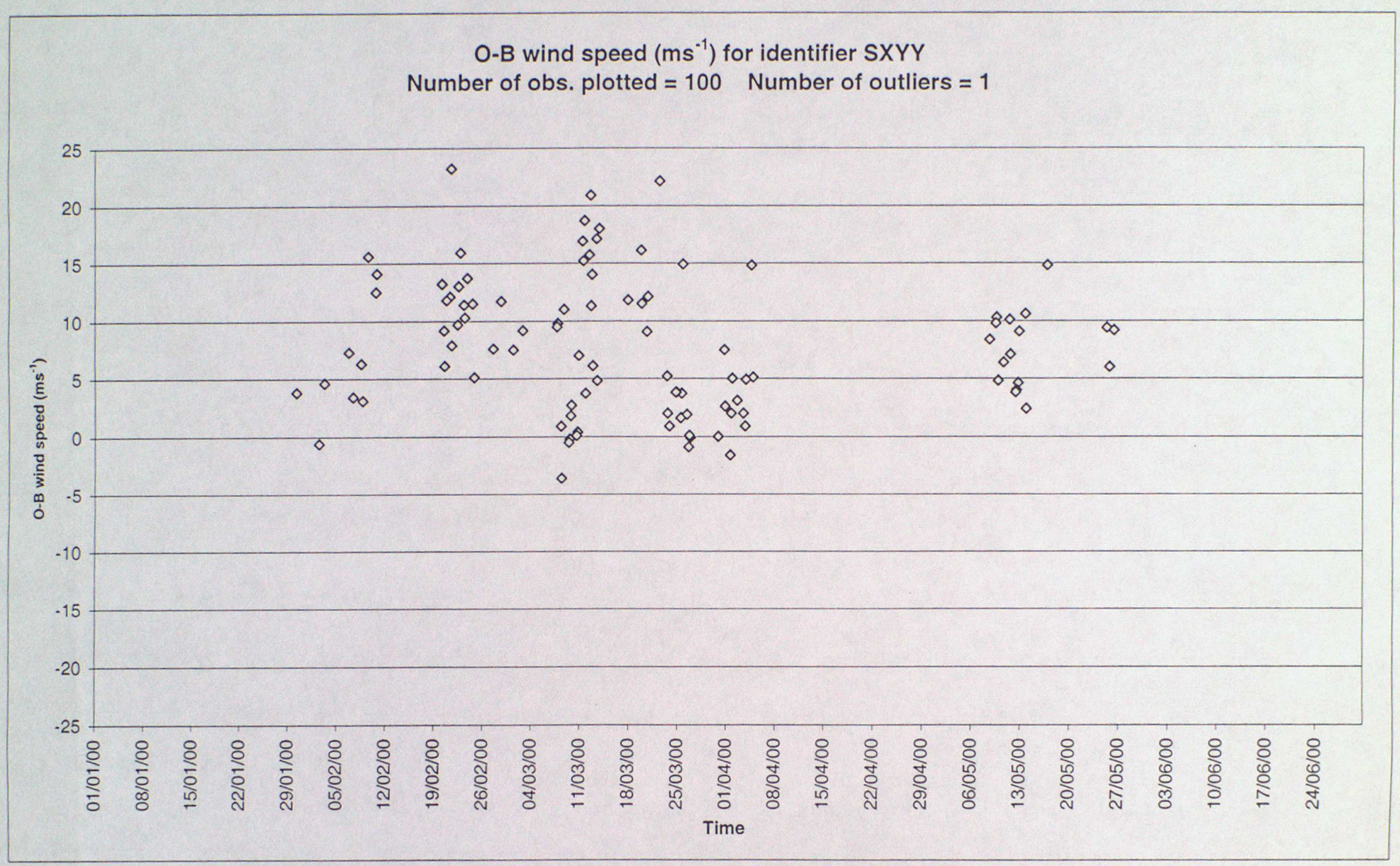
O-B wind speed (ms-1) for identifier LAQQ2
Number of obs. plotted = 57 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

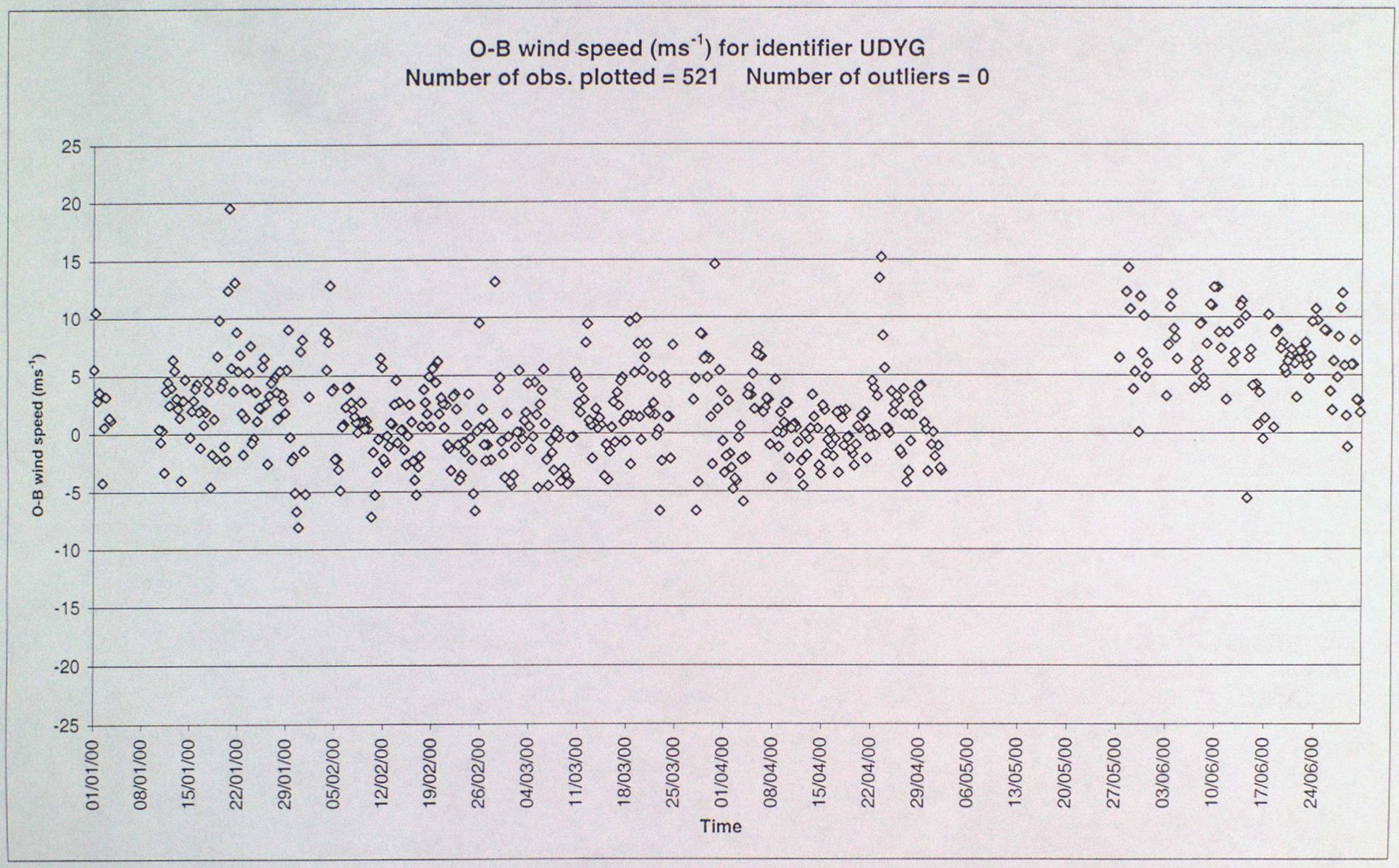

O-B wind speed (ms-1) for identifier OYCZ
Number of obs. plotted = 65 Number of outliers = 1
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B wind speed (ms-1) for identifier P3GB4
Number of obs. plotted = 146 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind speed (ms-1) for identifier P3WQ5
Number of obs. plotted = 48 Number of outliers = 1
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

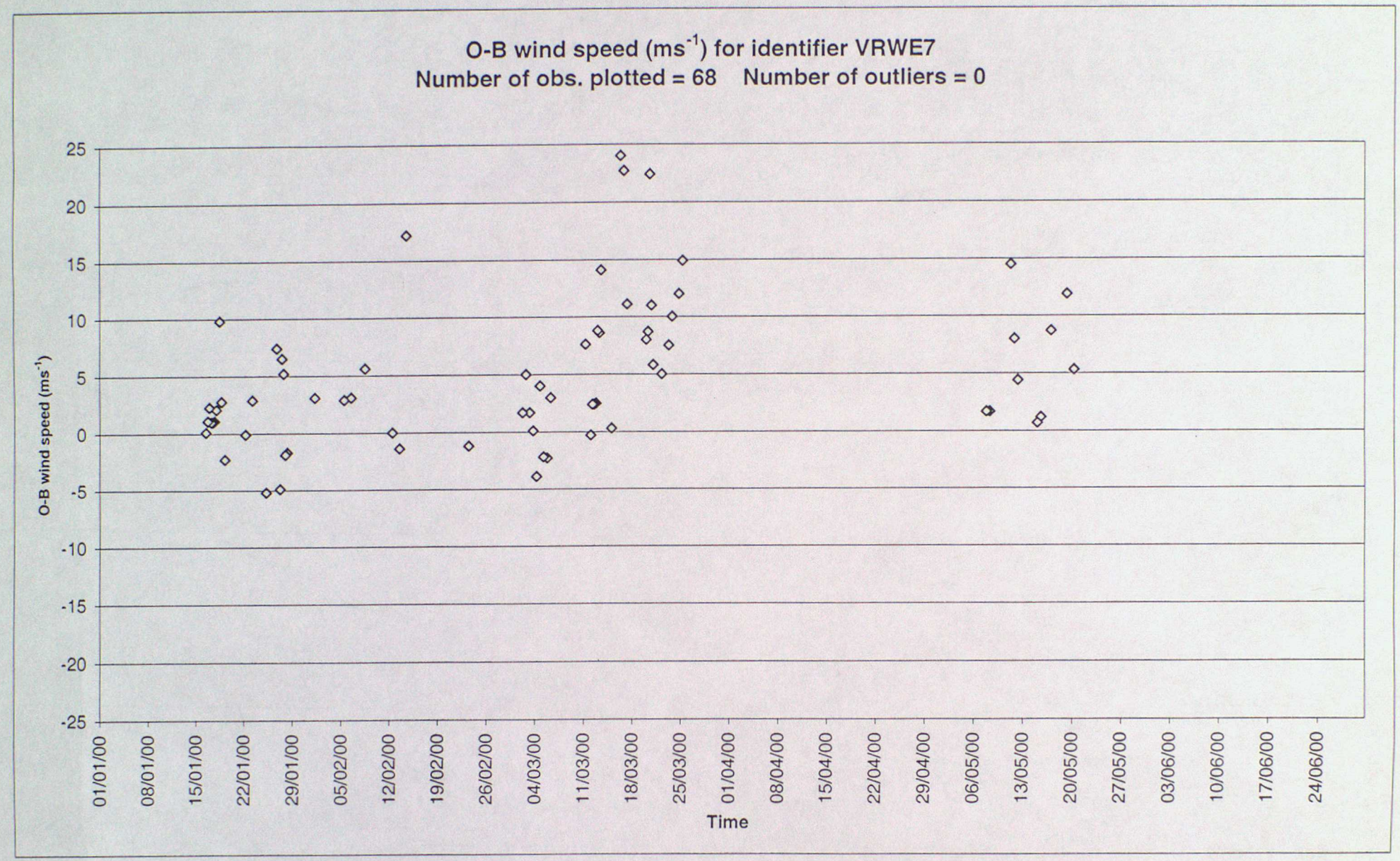

O-B wind speed (ms-1) for identifier SBPO
Number of obs. plotted = 72 Number of outliers = 1
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind speed (ms-1) for identifier SXYY
Number of obs. plotted = 100 Number of outliers = 1
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

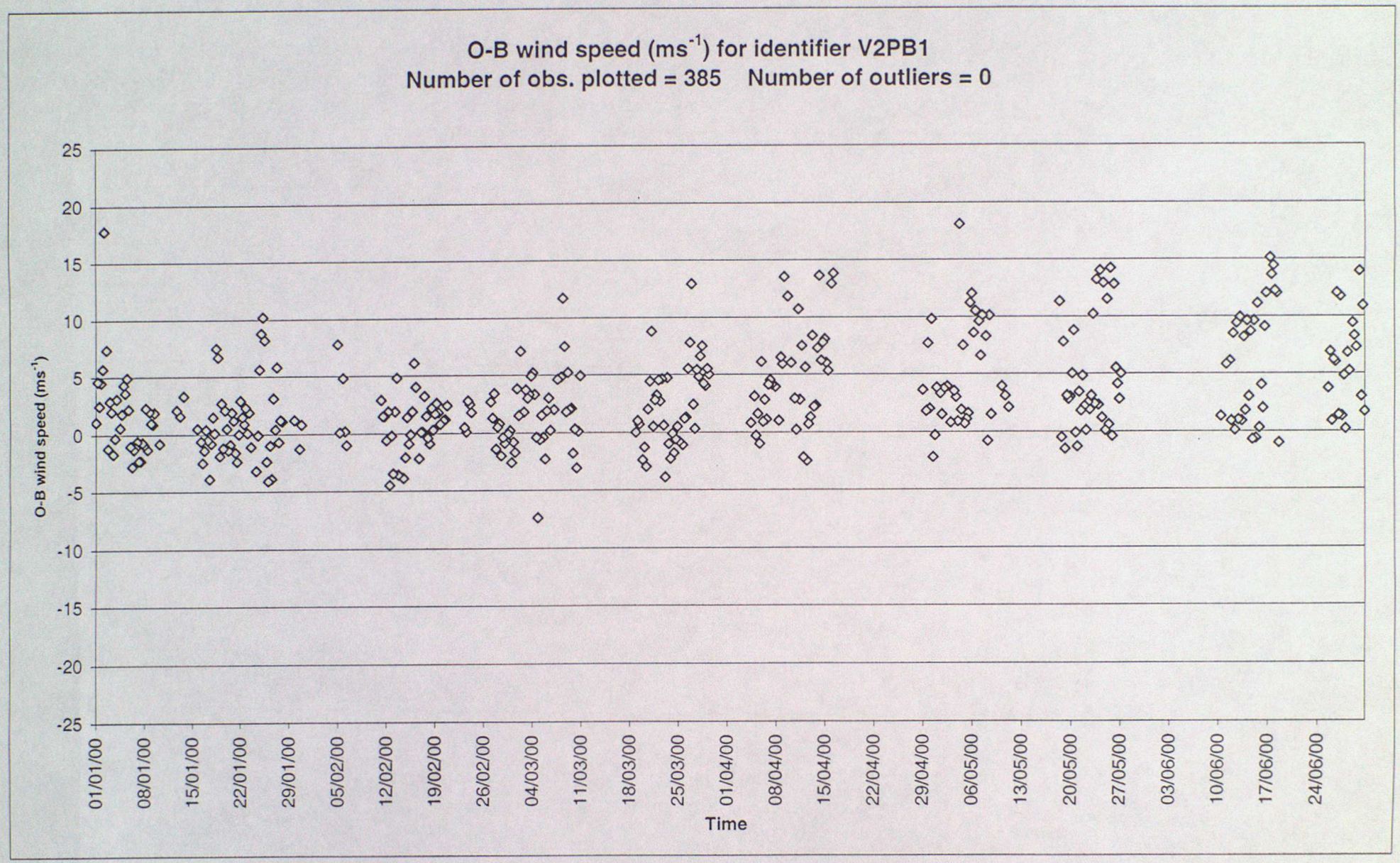

O-B wind speed (ms-1) for identifier UDYG
Number of obs. plotted = 521 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

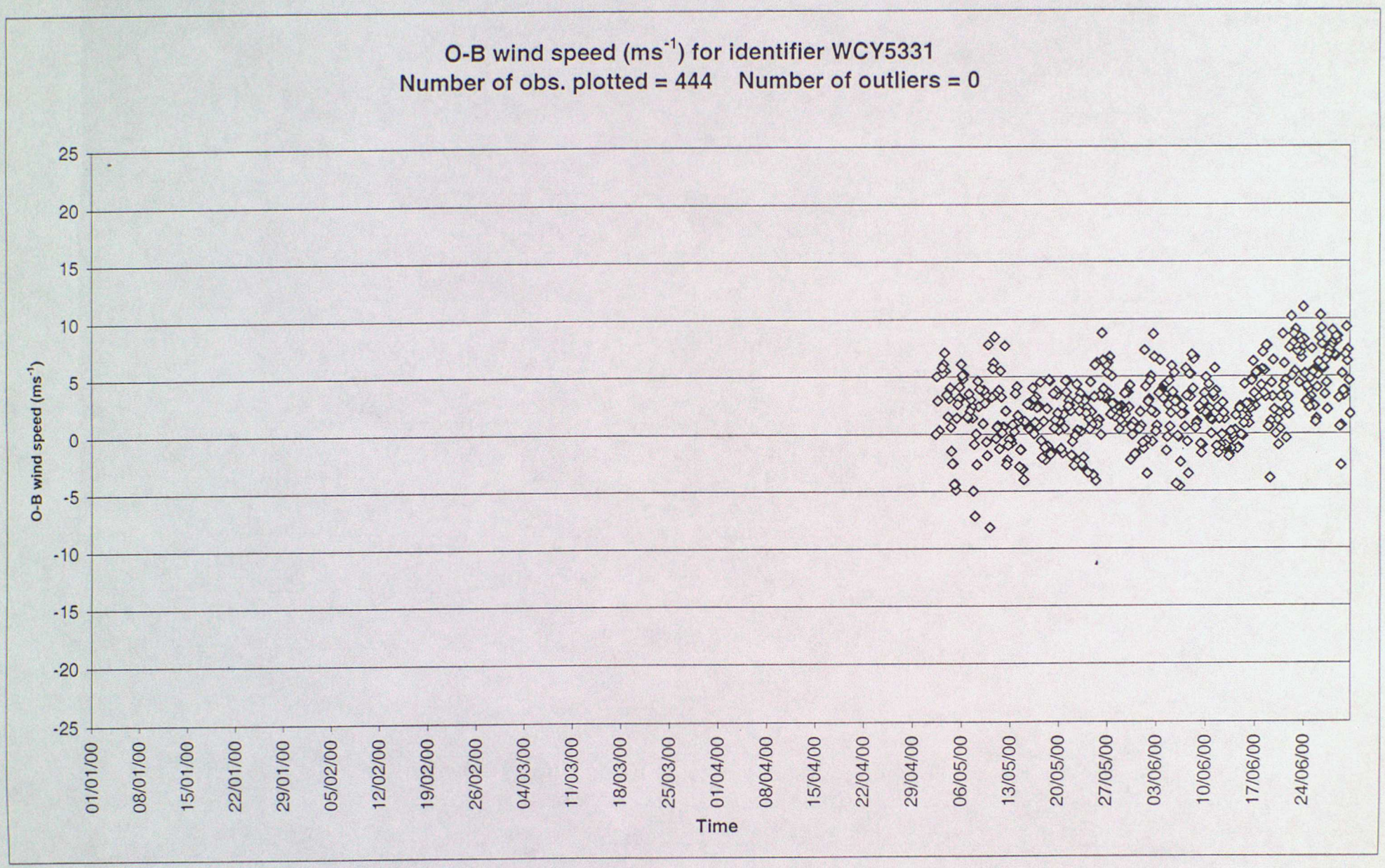
O-B wind speed (ms-1) for identifier VRUH8
Number of obs. plotted = 186 Number of outliers = 8
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

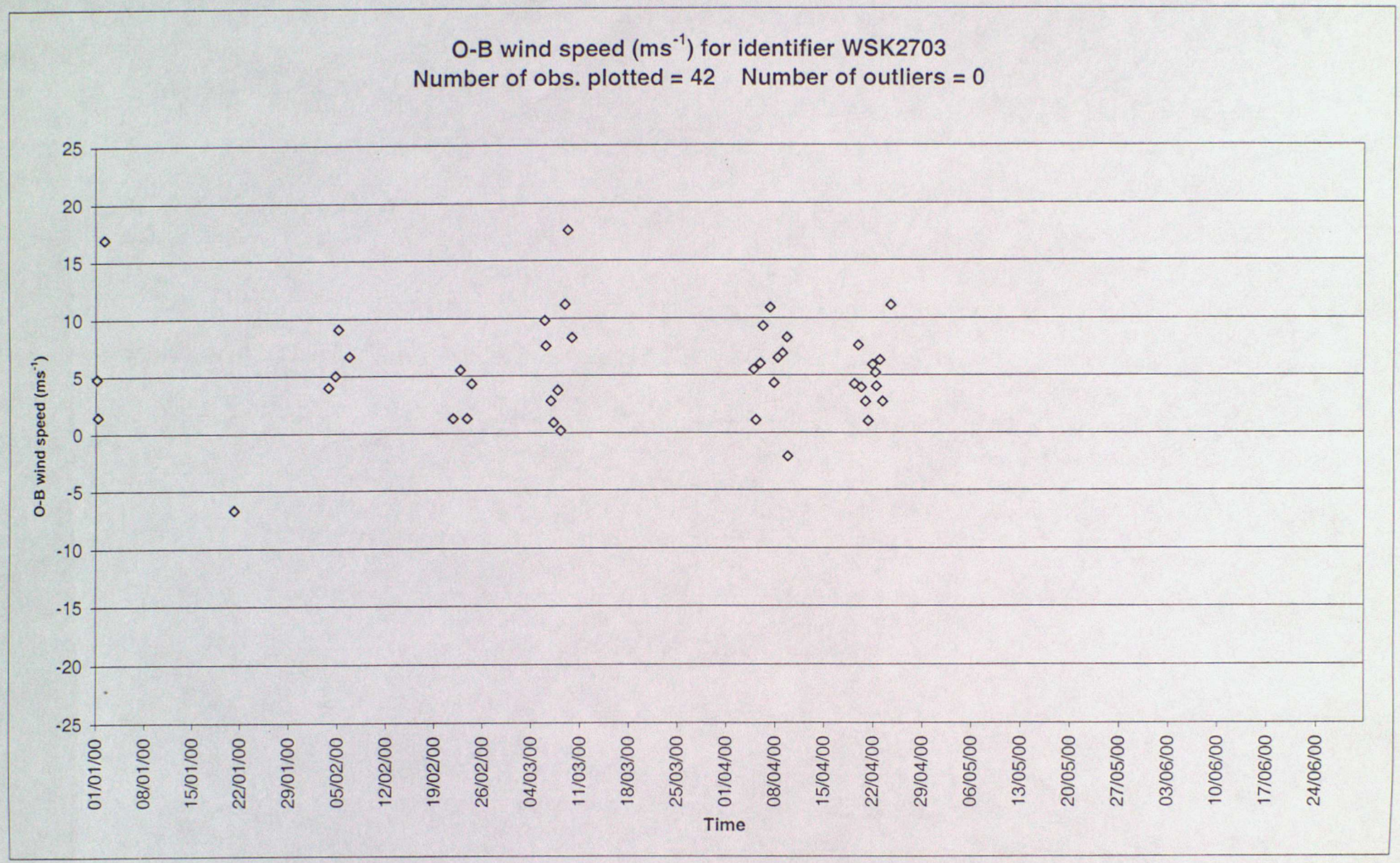
O-B wind speed (ms-1) for identifier VRVZ4
Number of obs. plotted = 87 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

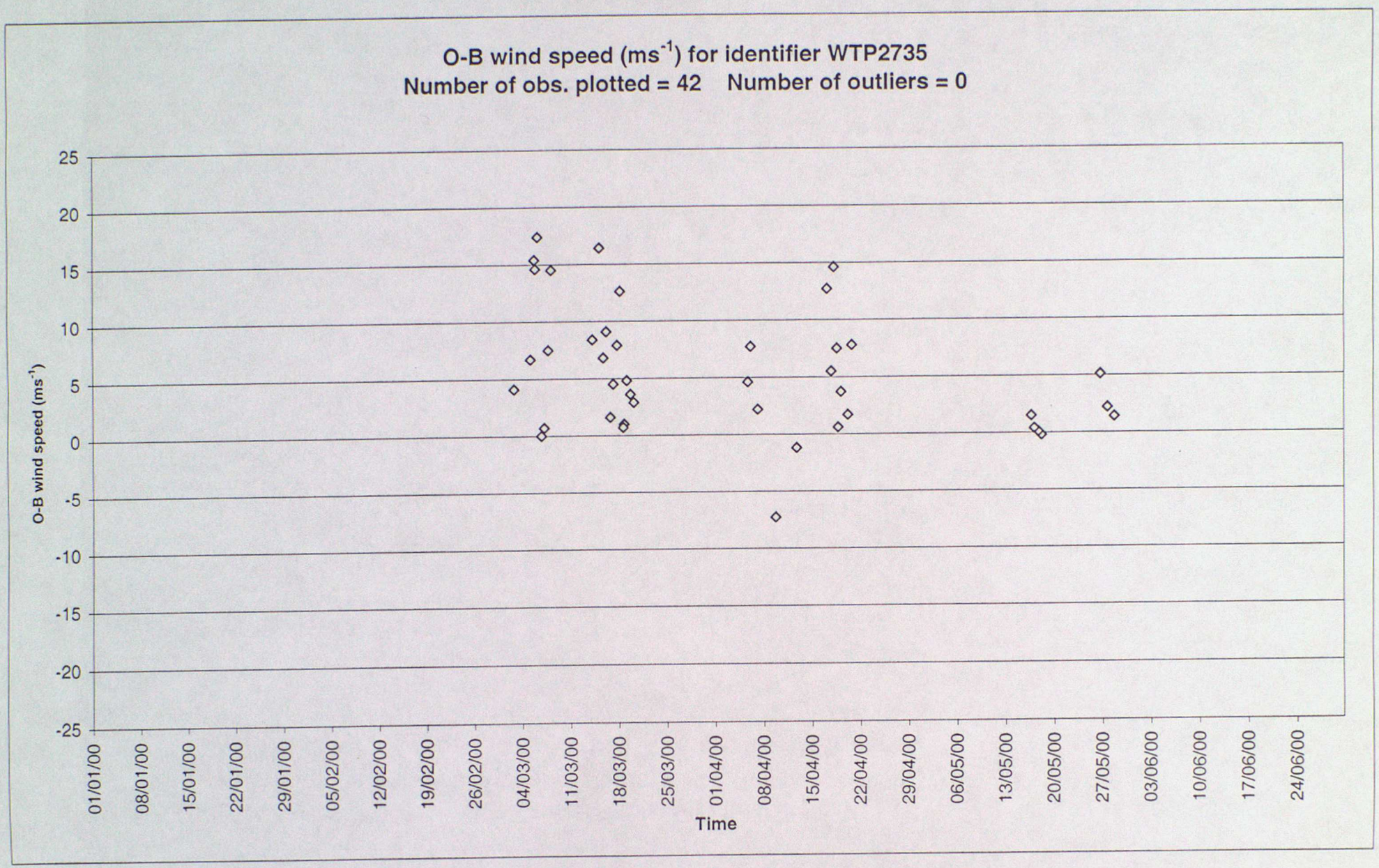

O-B wind speed (ms-1) for identifier VRWE7
Number of obs. plotted = 68 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

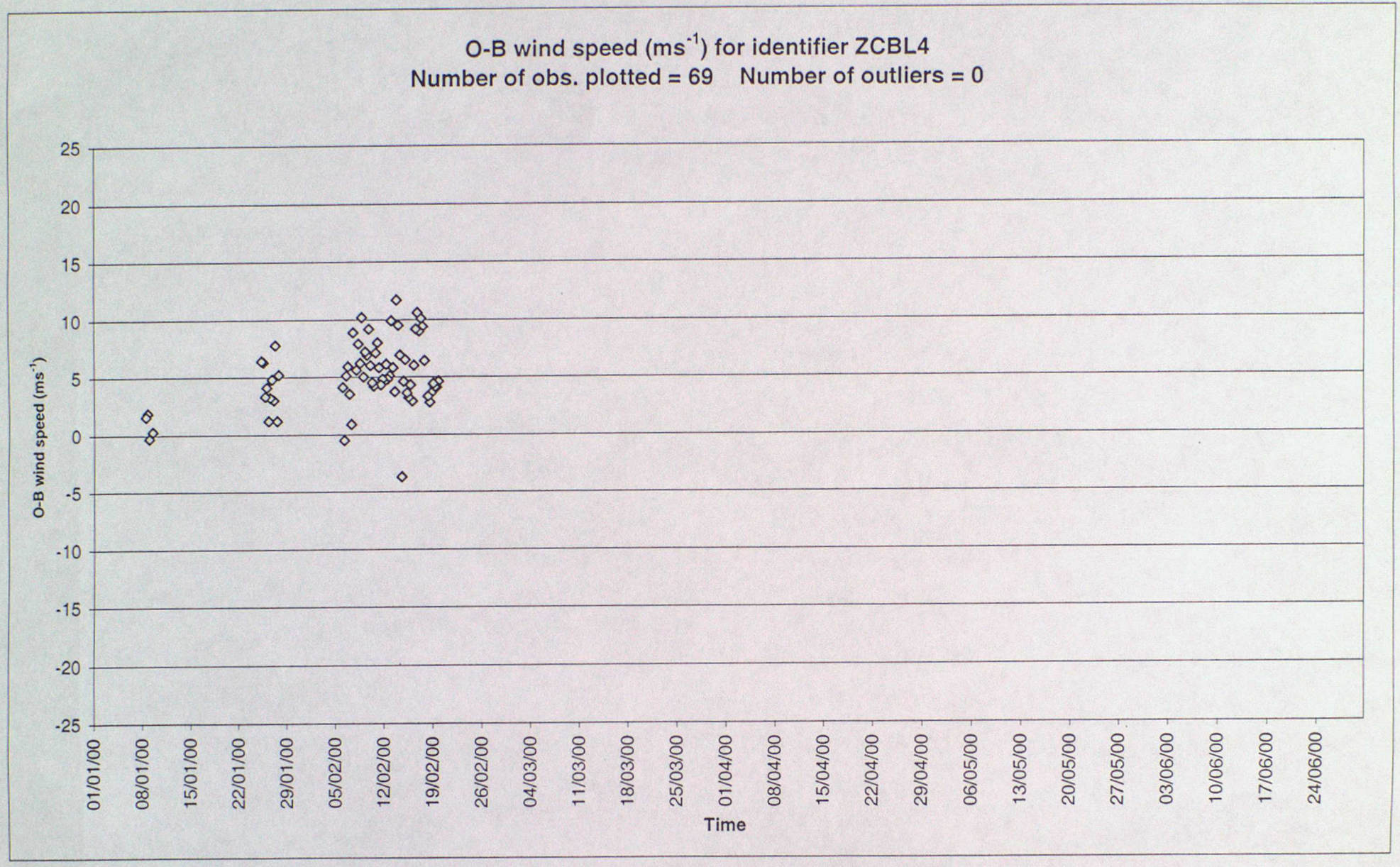
O-B wind speed (ms-1) for identifier V2CC
Number of obs. plotted = 41 Number of outliers = 2
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind speed (ms-1) for identifier V2PB1
Number of obs. plotted = 385 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

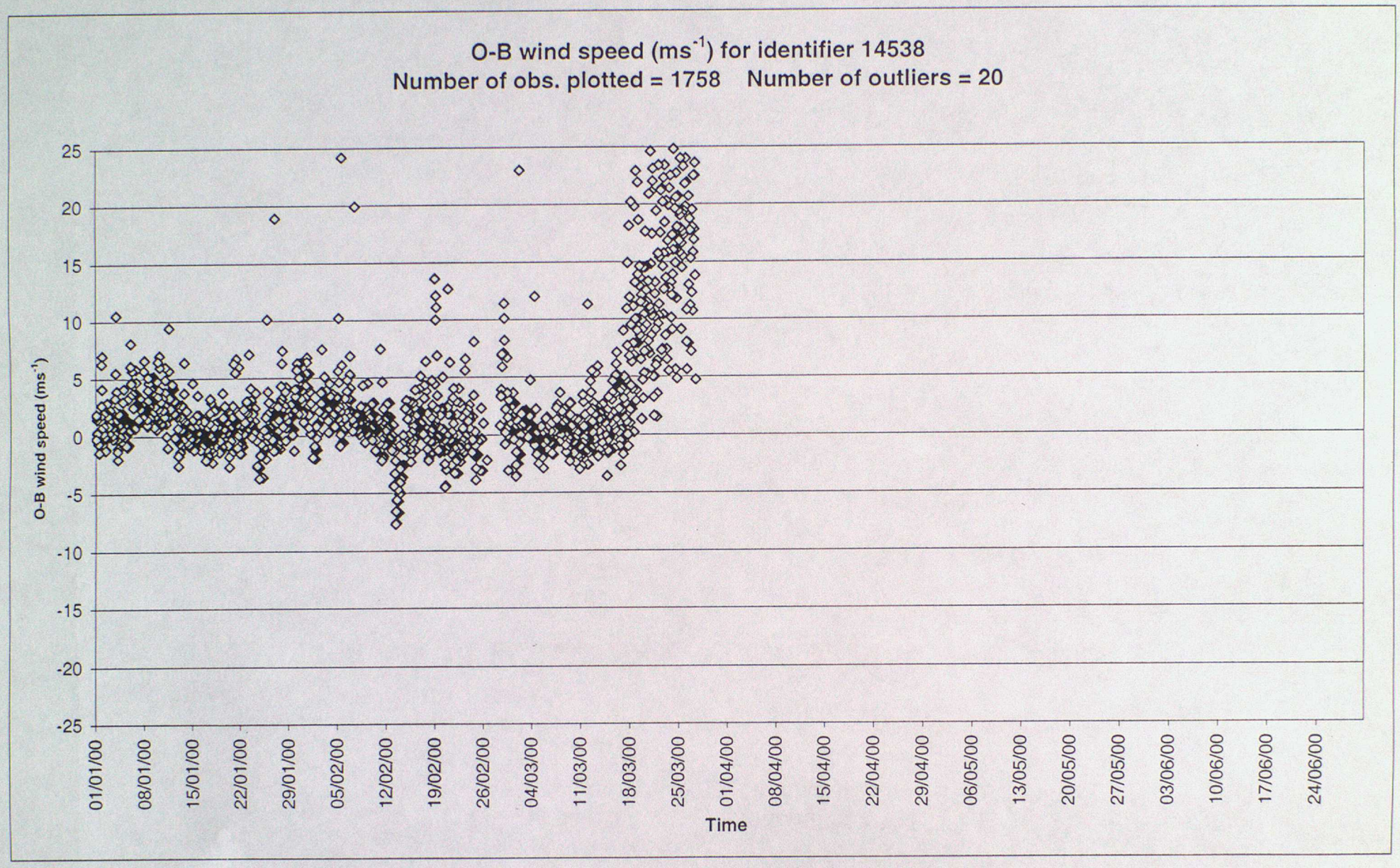

O-B wind speed (ms-1) for identifier WCY5331
Number of obs. plotted = 444 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

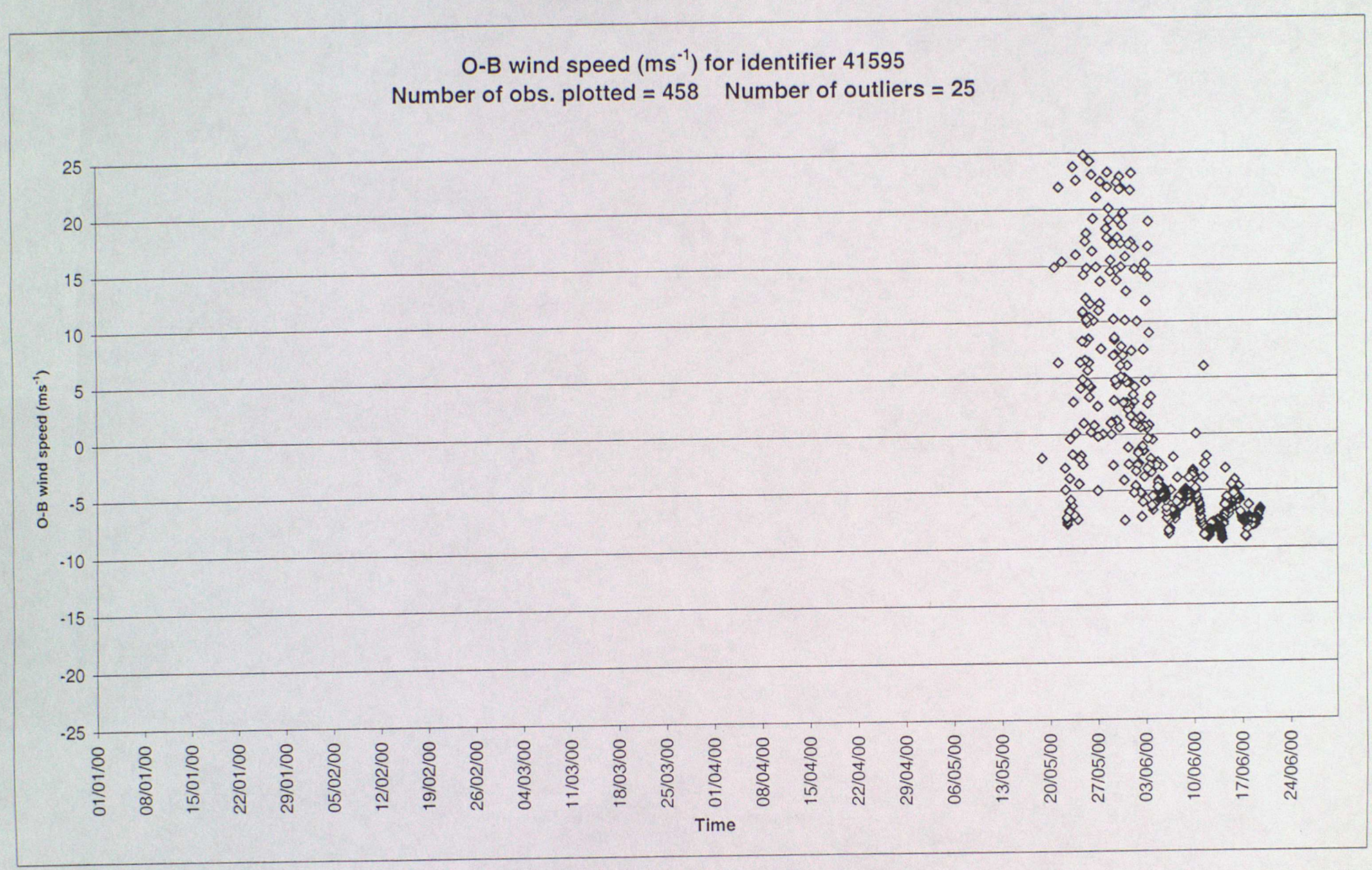

O-B wind speed (ms-1) for identifier WSK2703
Number of obs. plotted = 42 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

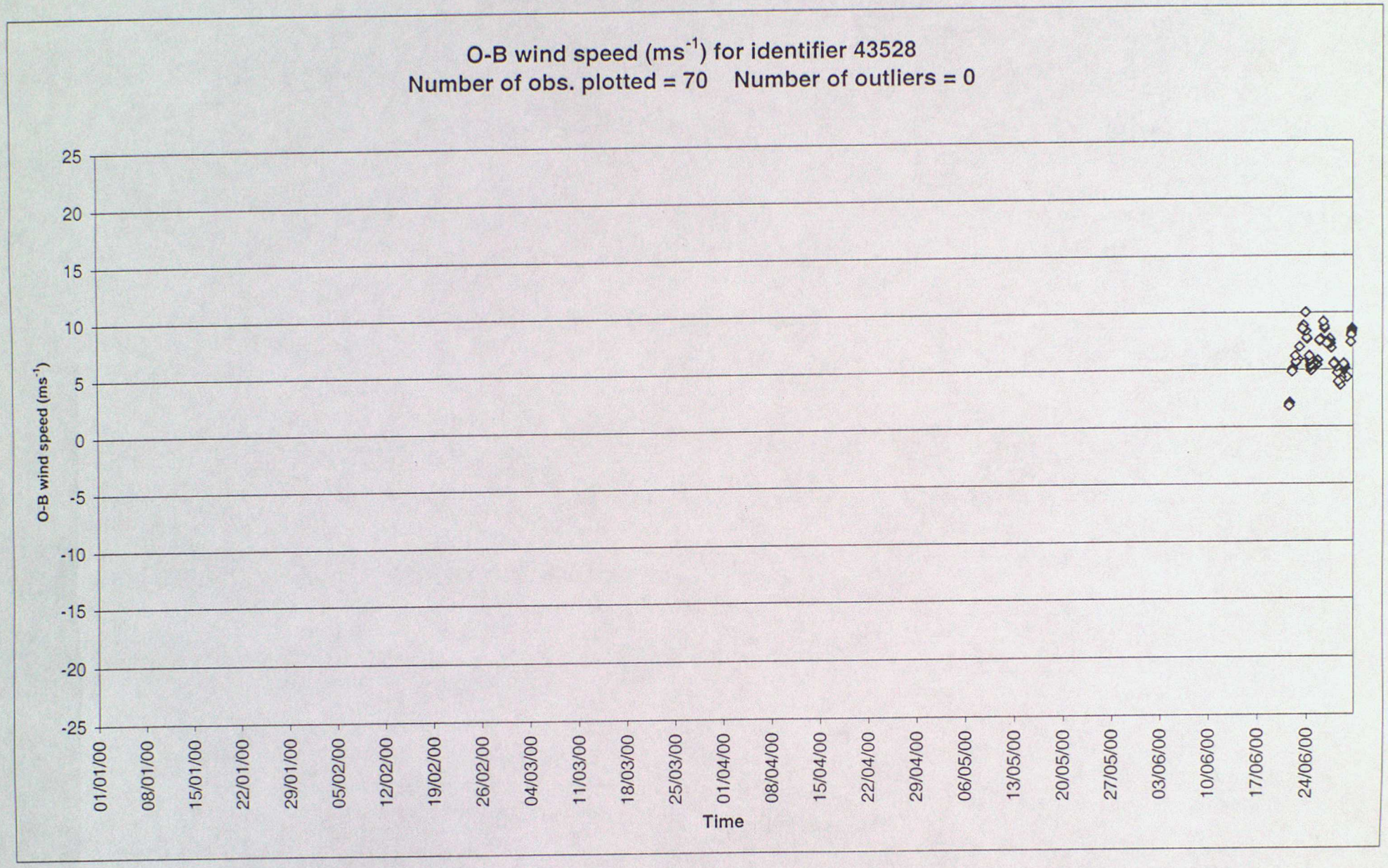

O-B wind speed (ms-1) for identifier WTP2735
Number of obs. plotted = 42 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

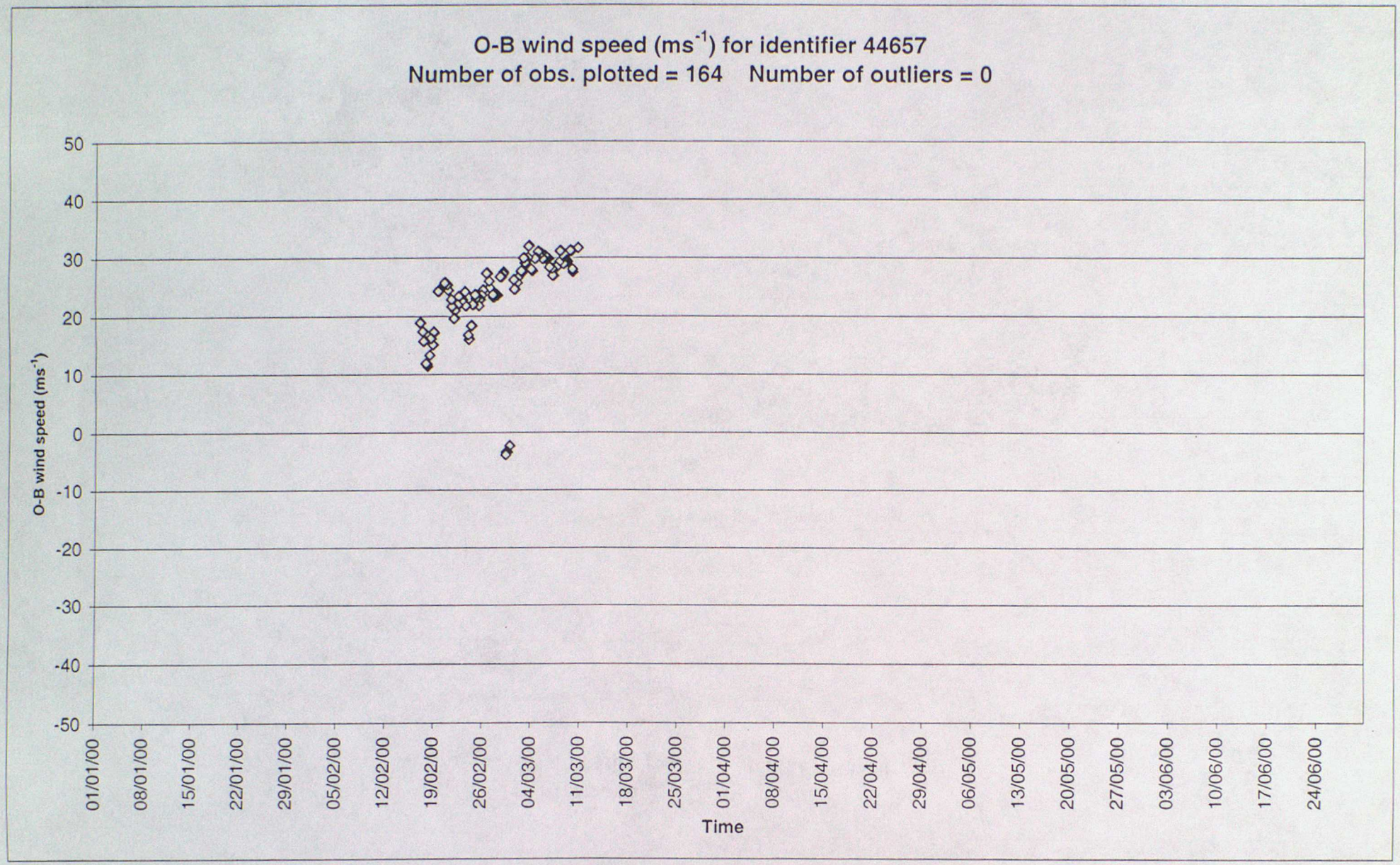

O-B wind speed (ms-1) for identifier ZCBL4
Number of obs. plotted = 69 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

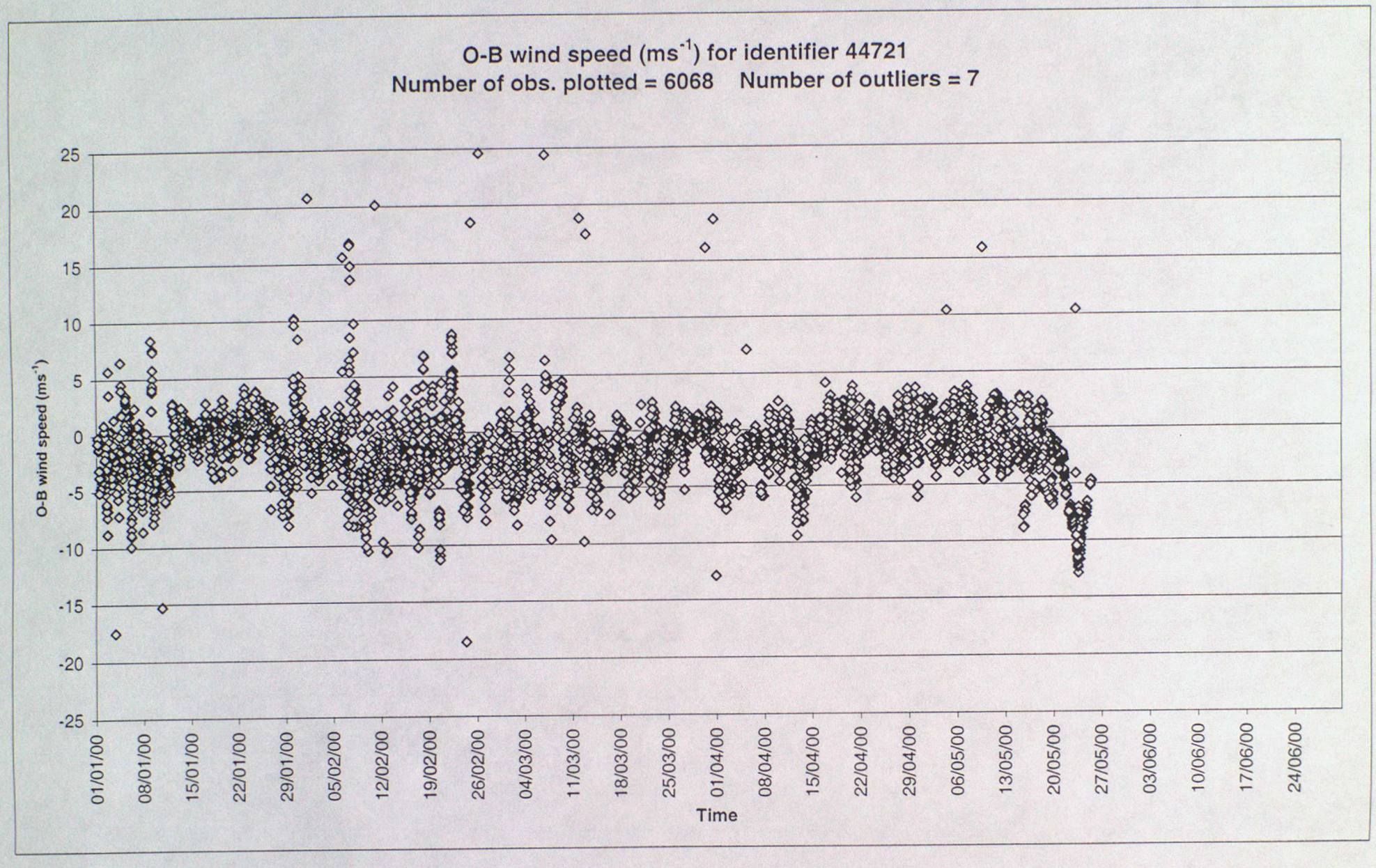
O-B wind speed (ms-1) for identifier ZSAF
Number of obs. plotted = 207 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

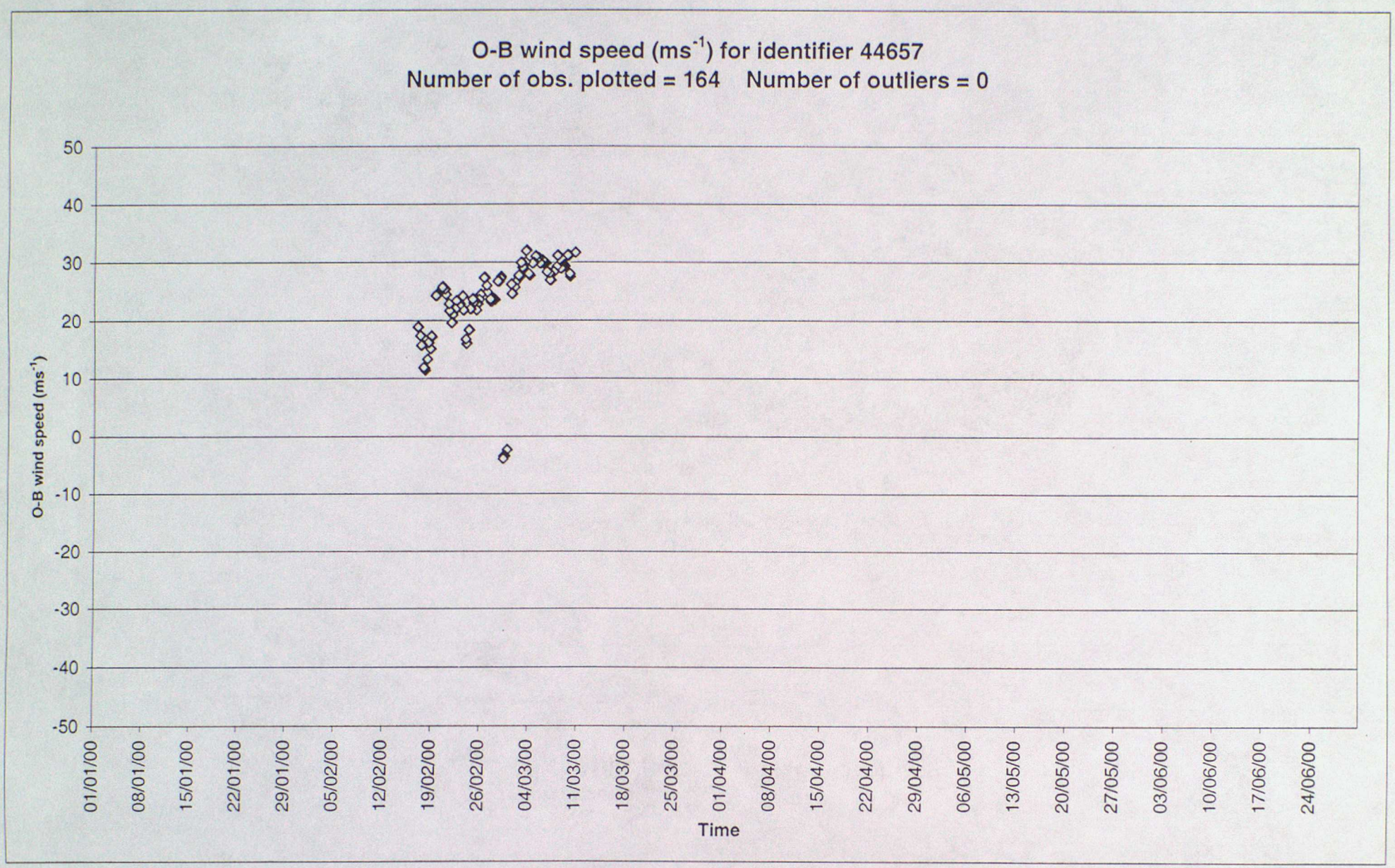

O-B wind speed (ms-1) for identifier 14538
Number of obs. plotted = 1758 Number of outliers = 20
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

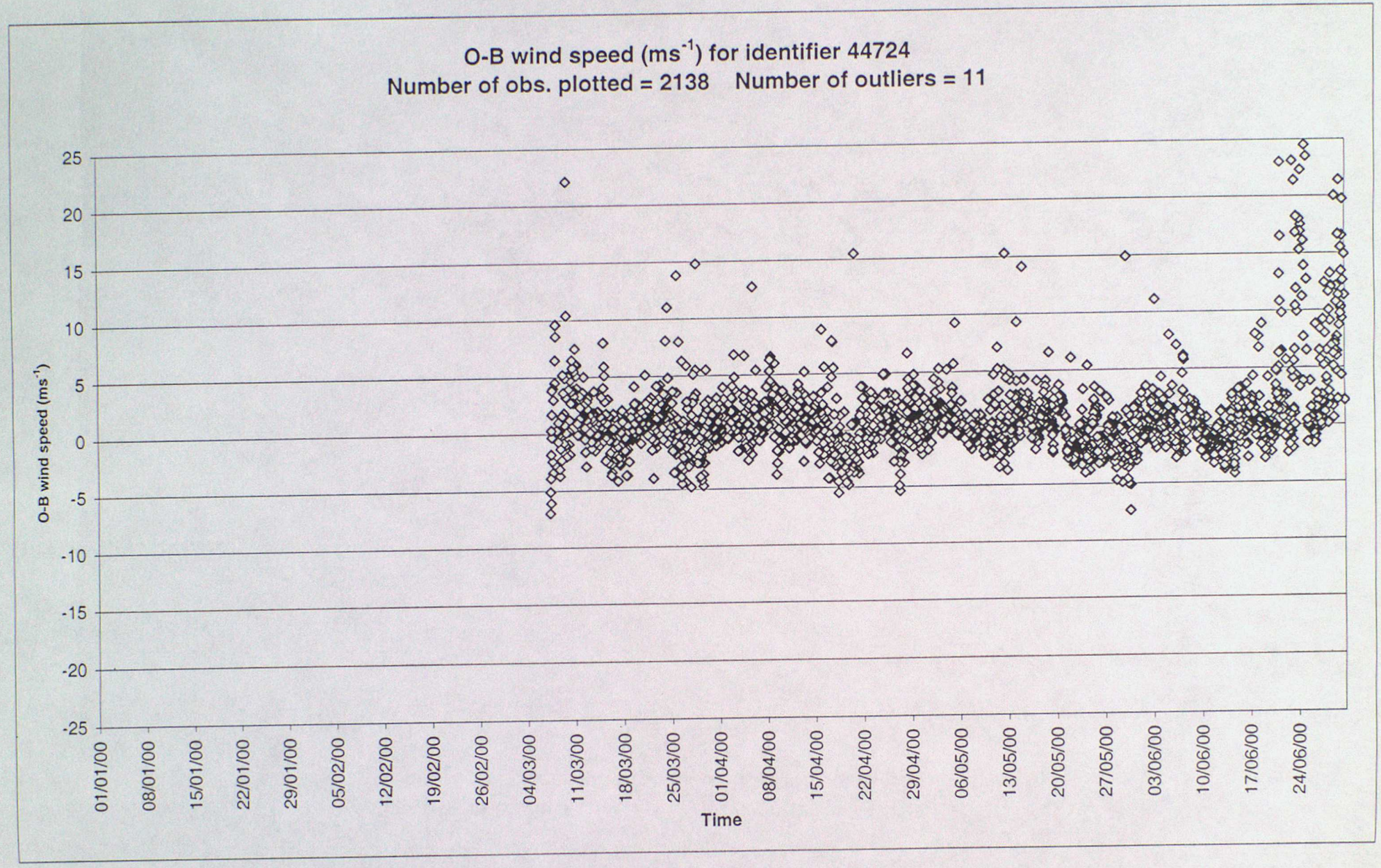

O-B wind speed (ms-1) for identifier 41595
Number of obs. plotted = 458 Number of outliers = 25
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

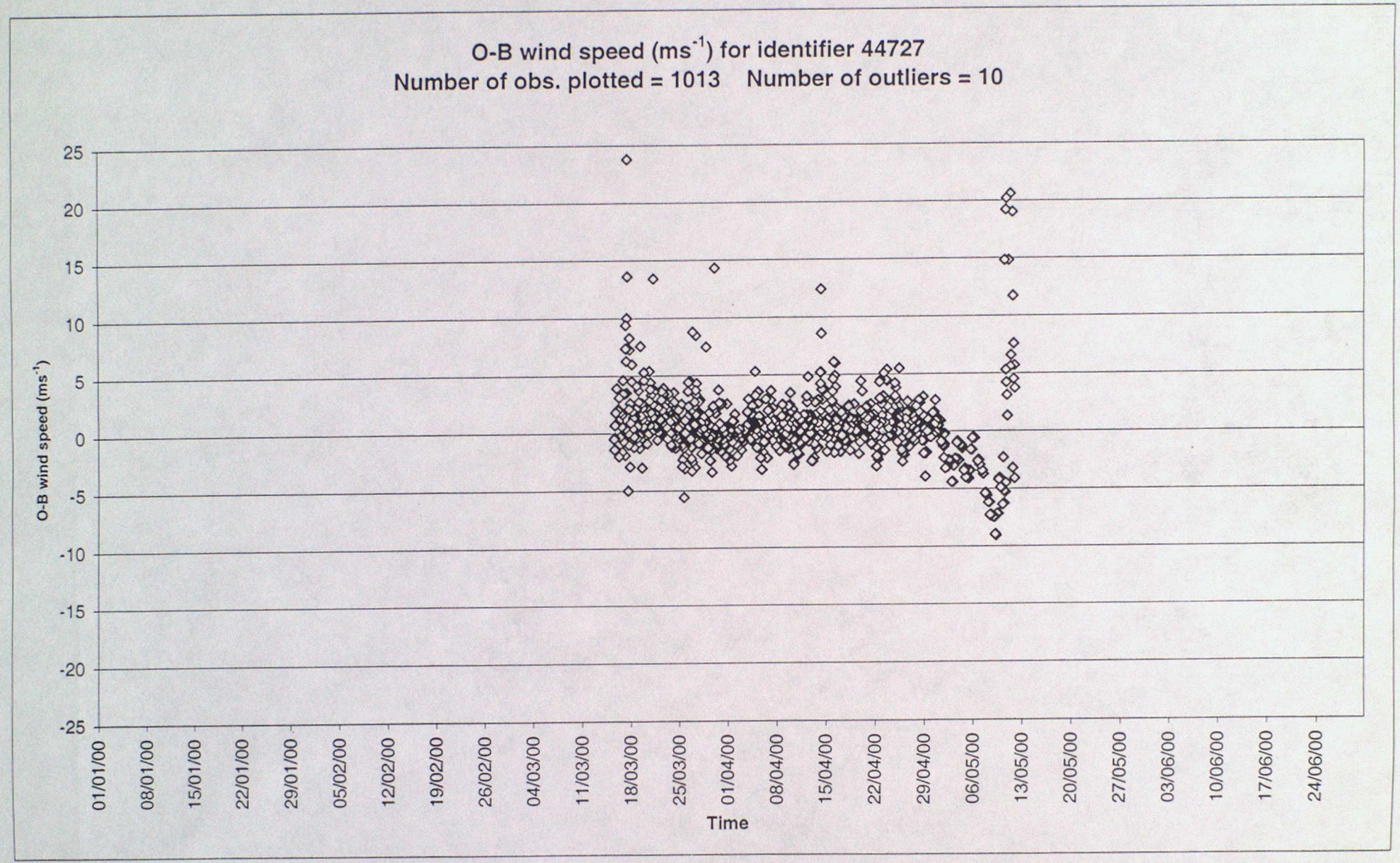

O-B wind speed (ms-1) for identifier 43528
Number of obs. plotted = 70 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind speed (ms-1) for identifier 44657
Number of obs. plotted = 164 Number of outliers = 0
O-B wind speed (ms-1)
50
40
30
20
10
0
-10
-20
-30
-40
-50
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

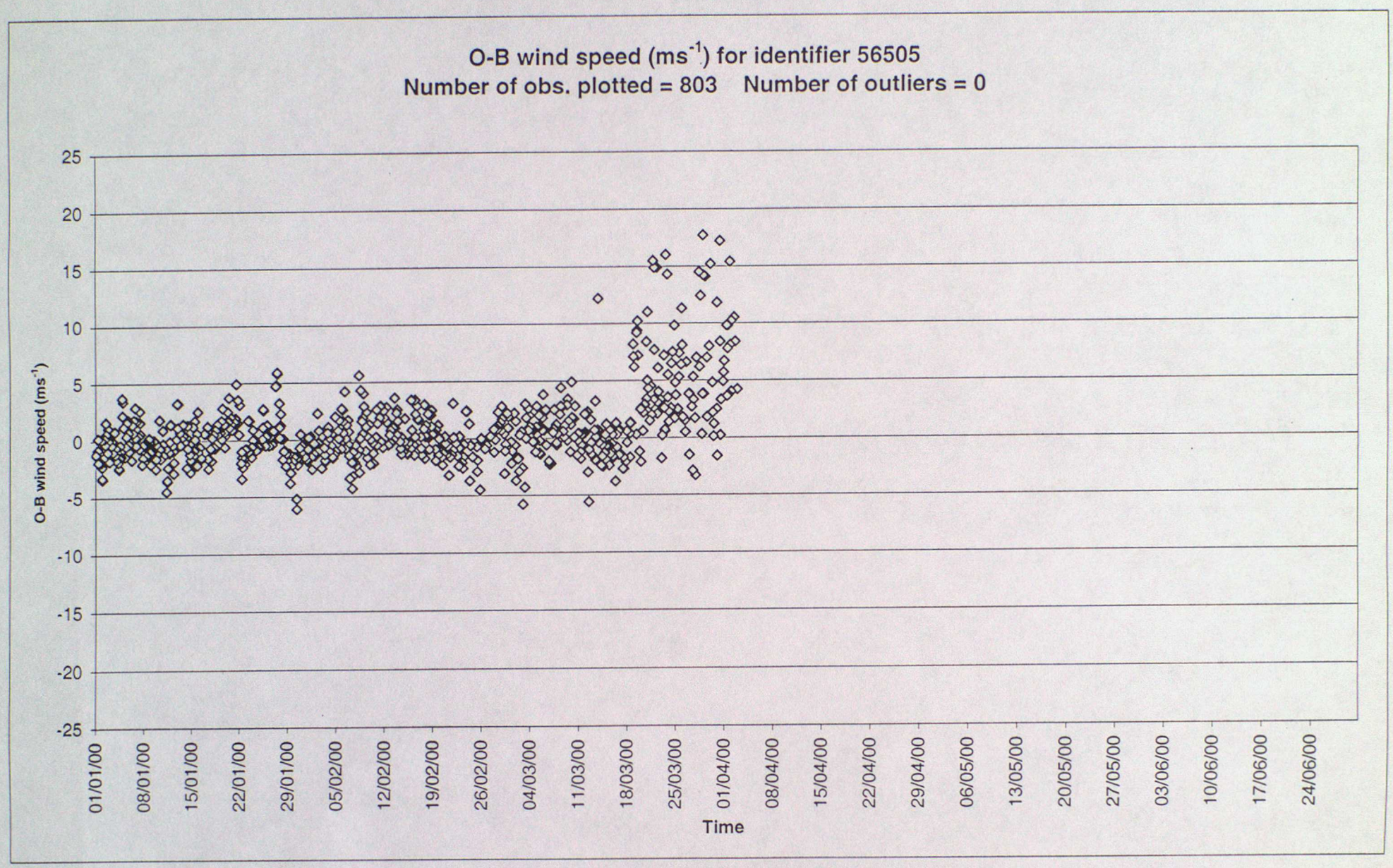

O-B wind speed (ms-1) for identifier 44721
Number of obs. plotted = 6068 Number of outliers = 7
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

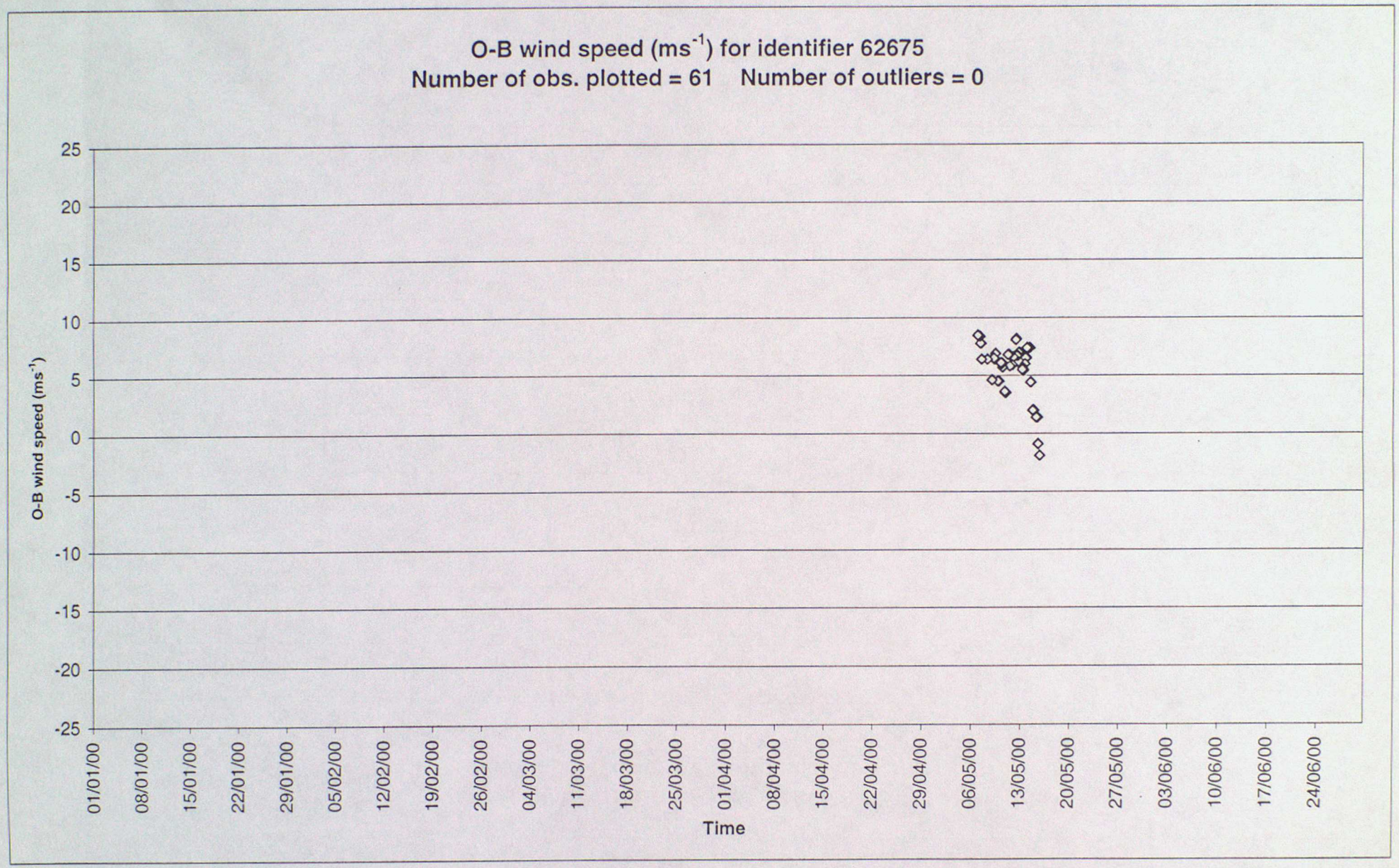

O-B wind speed (ms-1) for identifier 44657
Number of obs. plotted = 164 Number of outliers = 0
O-B wind speed (ms-1)
50
40
30
20
10
0
-10
-20
-30
-40
-50
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

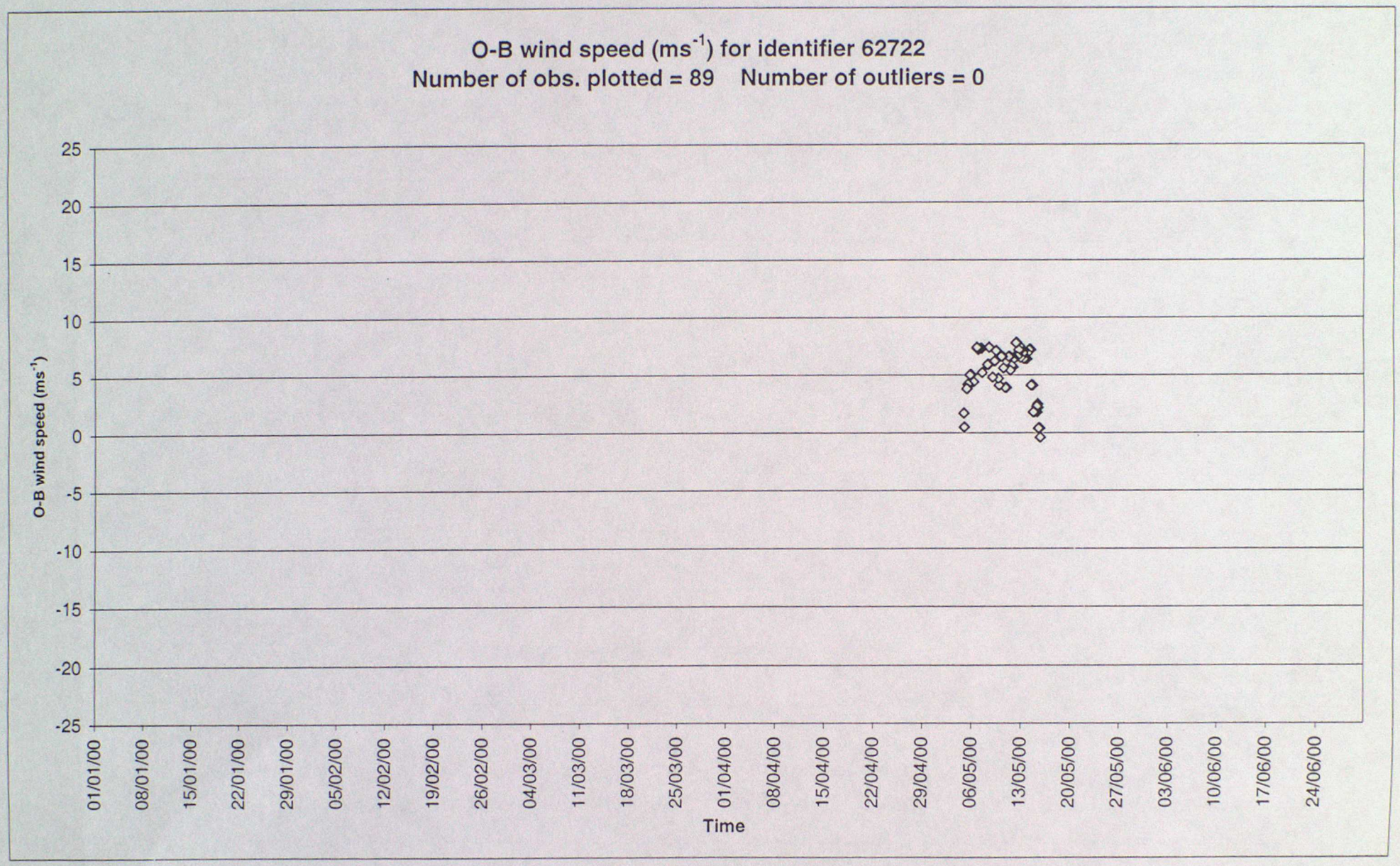

O-B wind speed (ms-1) for identifier 44724
Number of obs. plotted = 2138 Number of outliers = 11
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

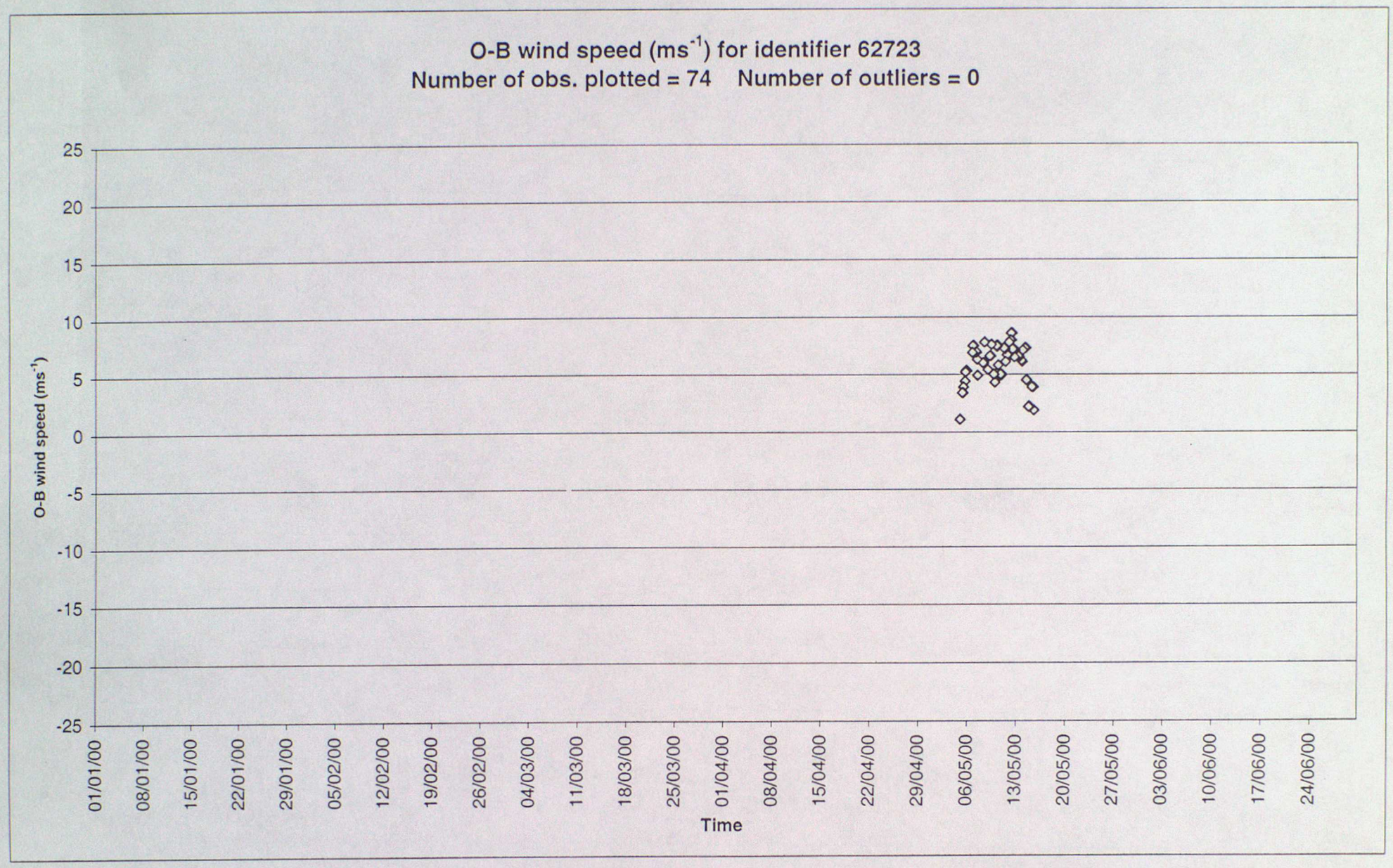

O-B wind speed (ms-1) for identifier 44727
Number of obs. plotted = 1013 Number of outliers = 10
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

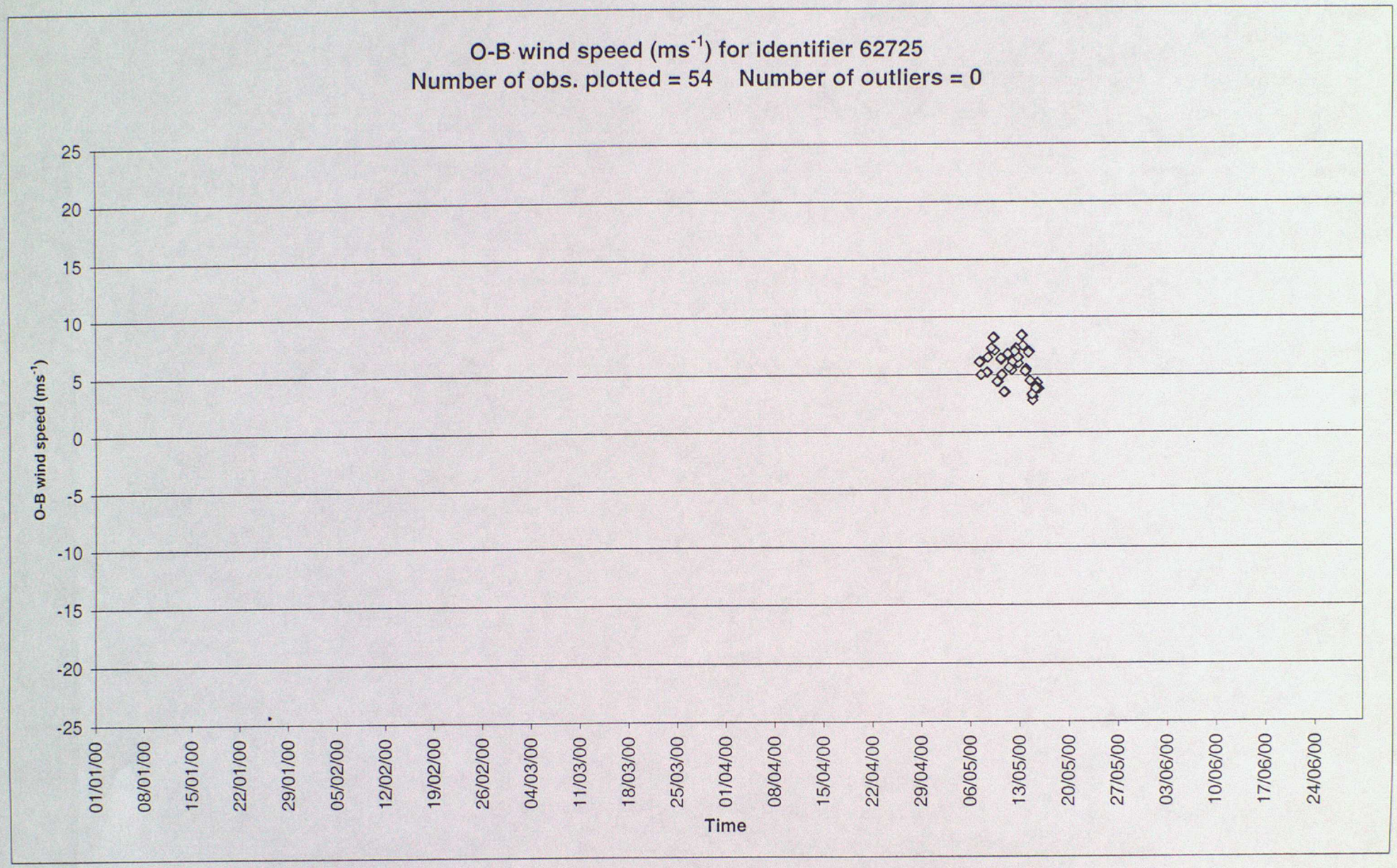
O-B wind speed (ms-1) for identifier 52539
Number of obs. plotted = 422 Number of outliers = 94
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind speed (ms-1) for identifier 56505
Number of obs. plotted = 803 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

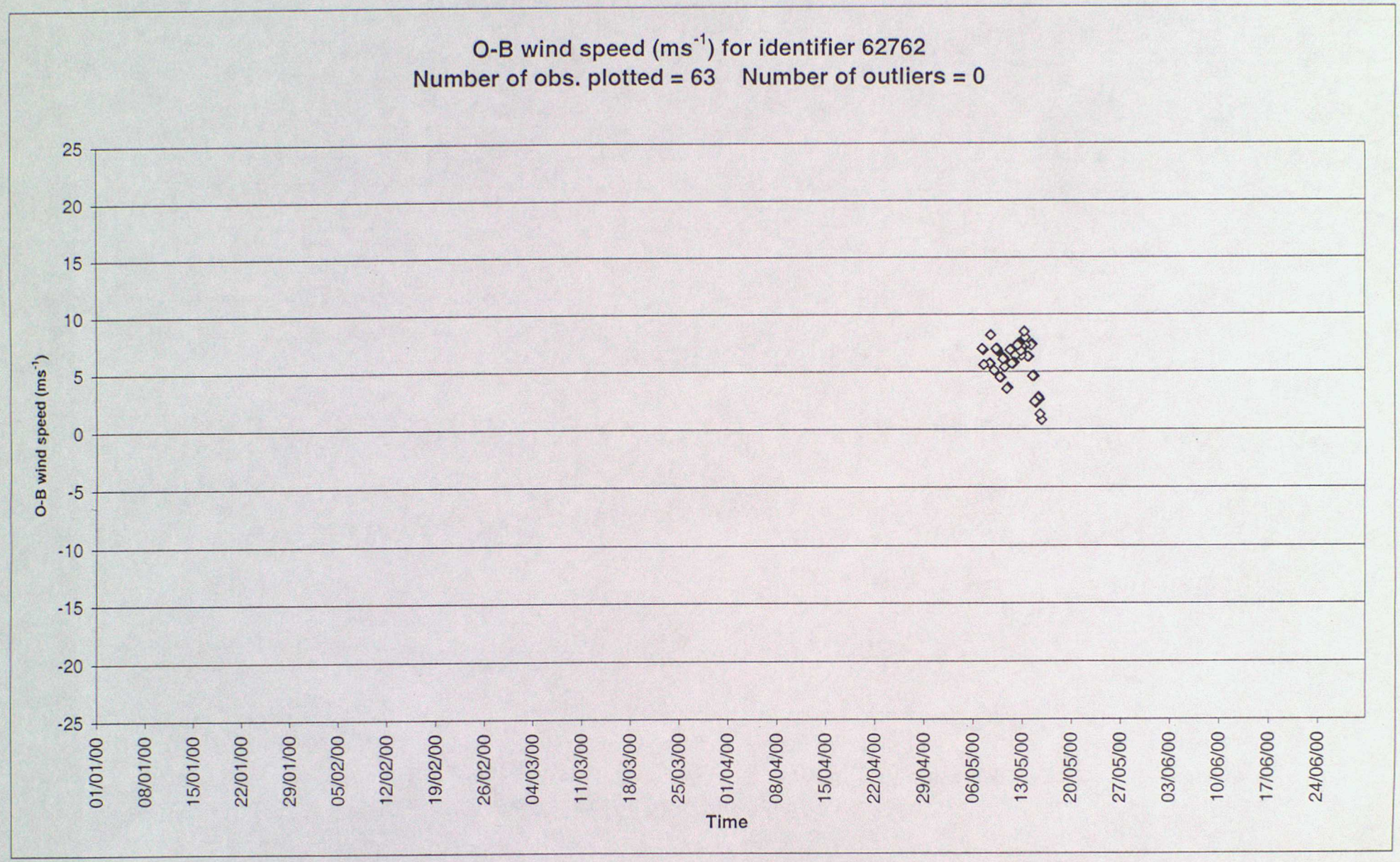

O-B wind speed (ms-1) for identifier 62675
Number of obs. plotted = 61 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

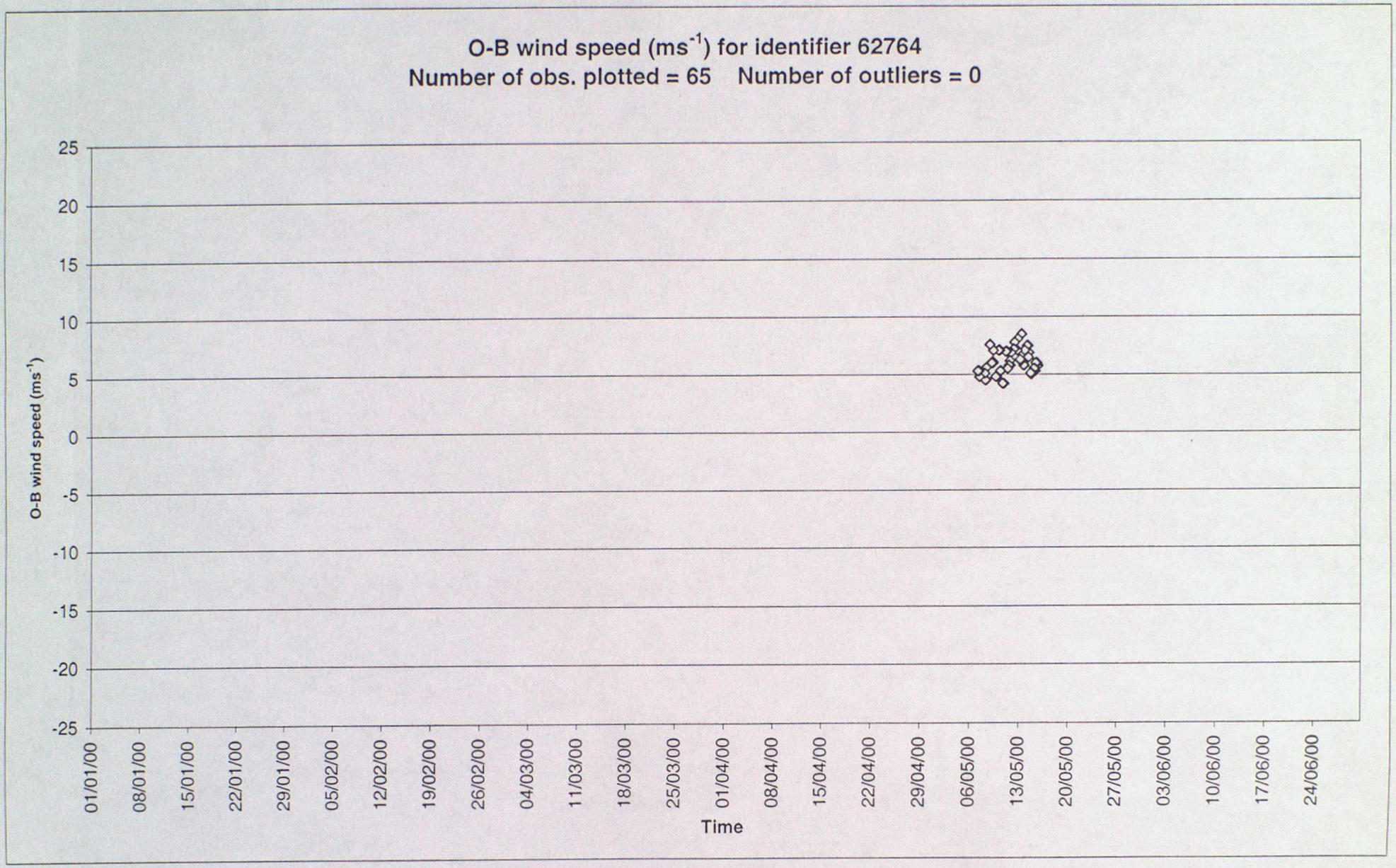

O-B wind speed (ms-1) for identifier 62722
Number of obs. plotted = 89 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

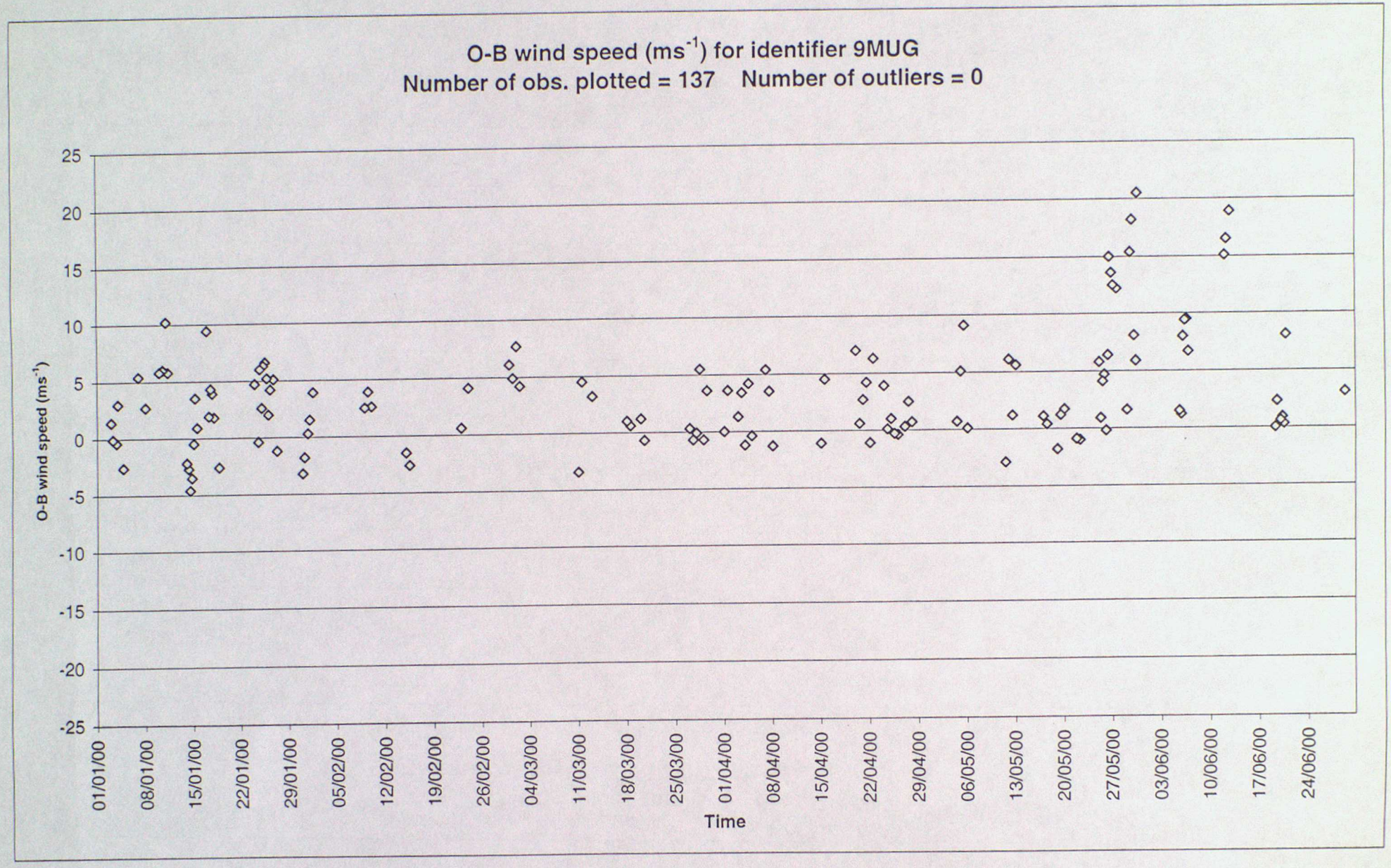

O-B wind speed (ms-1) for identifier 62723
Number of obs. plotted = 74 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

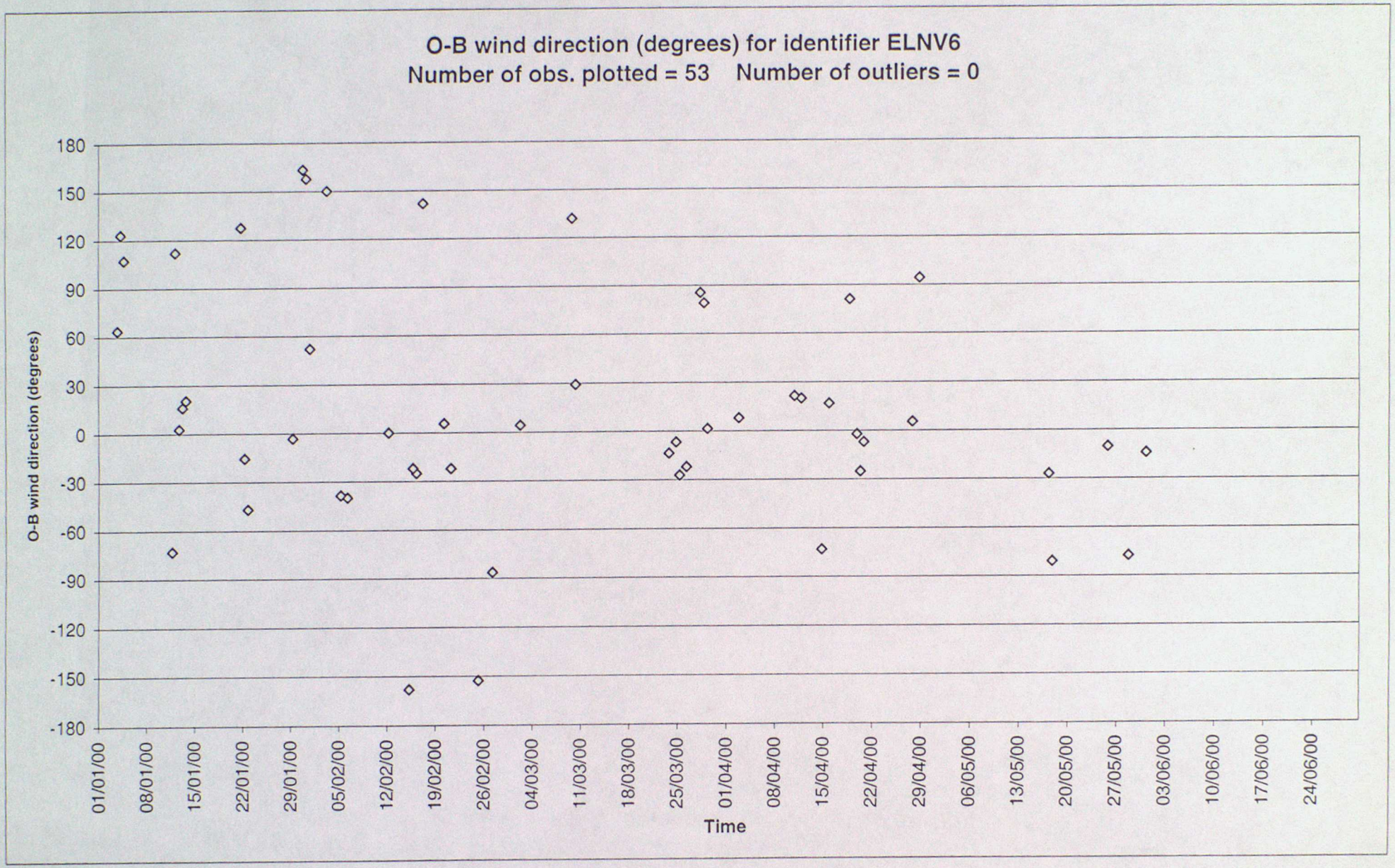

O-B wind speed (ms-1) for identifier 62725
Number of obs. plotted = 54 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

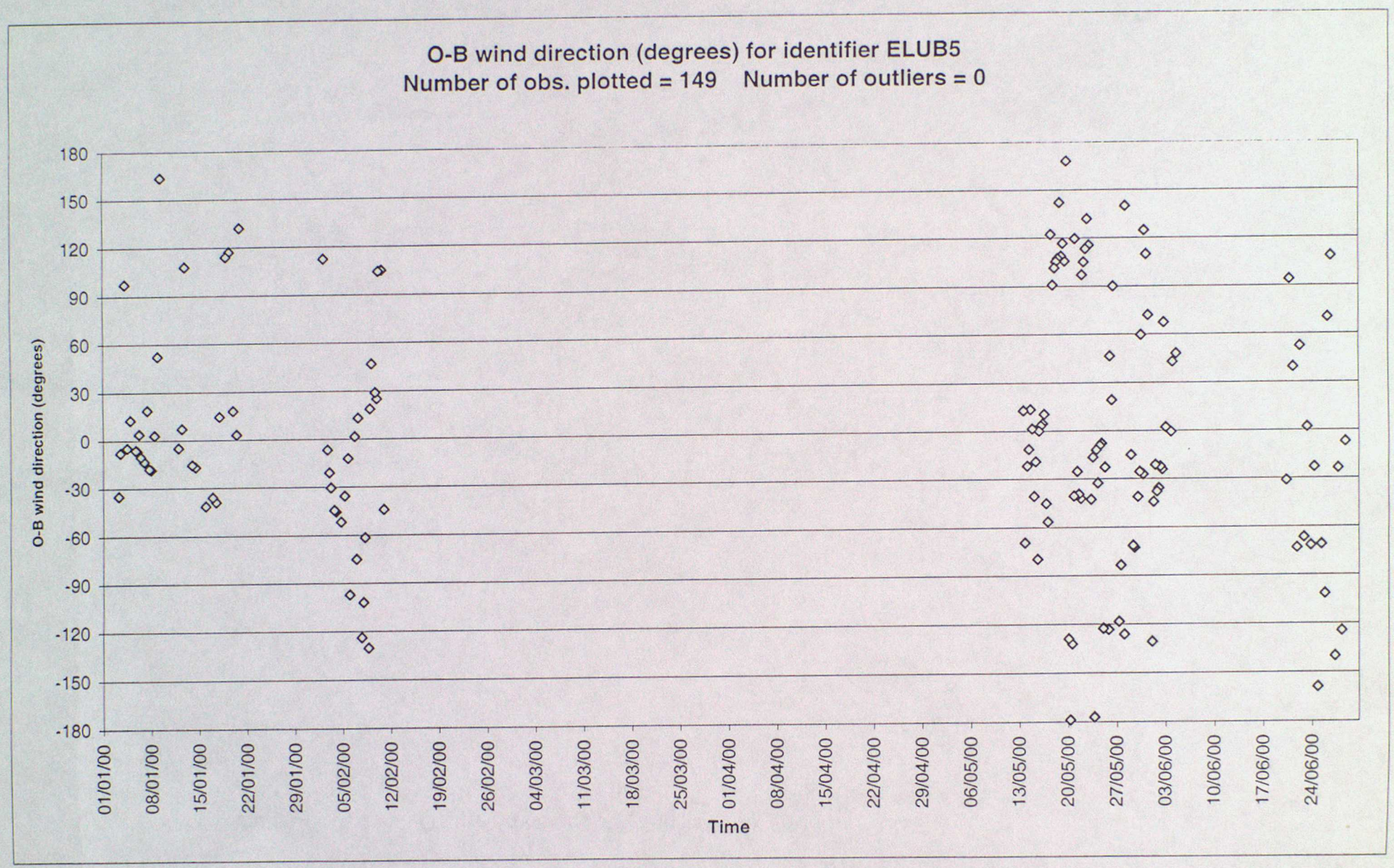
O-B wind speed (ms-1) for identifier 62761
Number of obs. plotted = 70 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

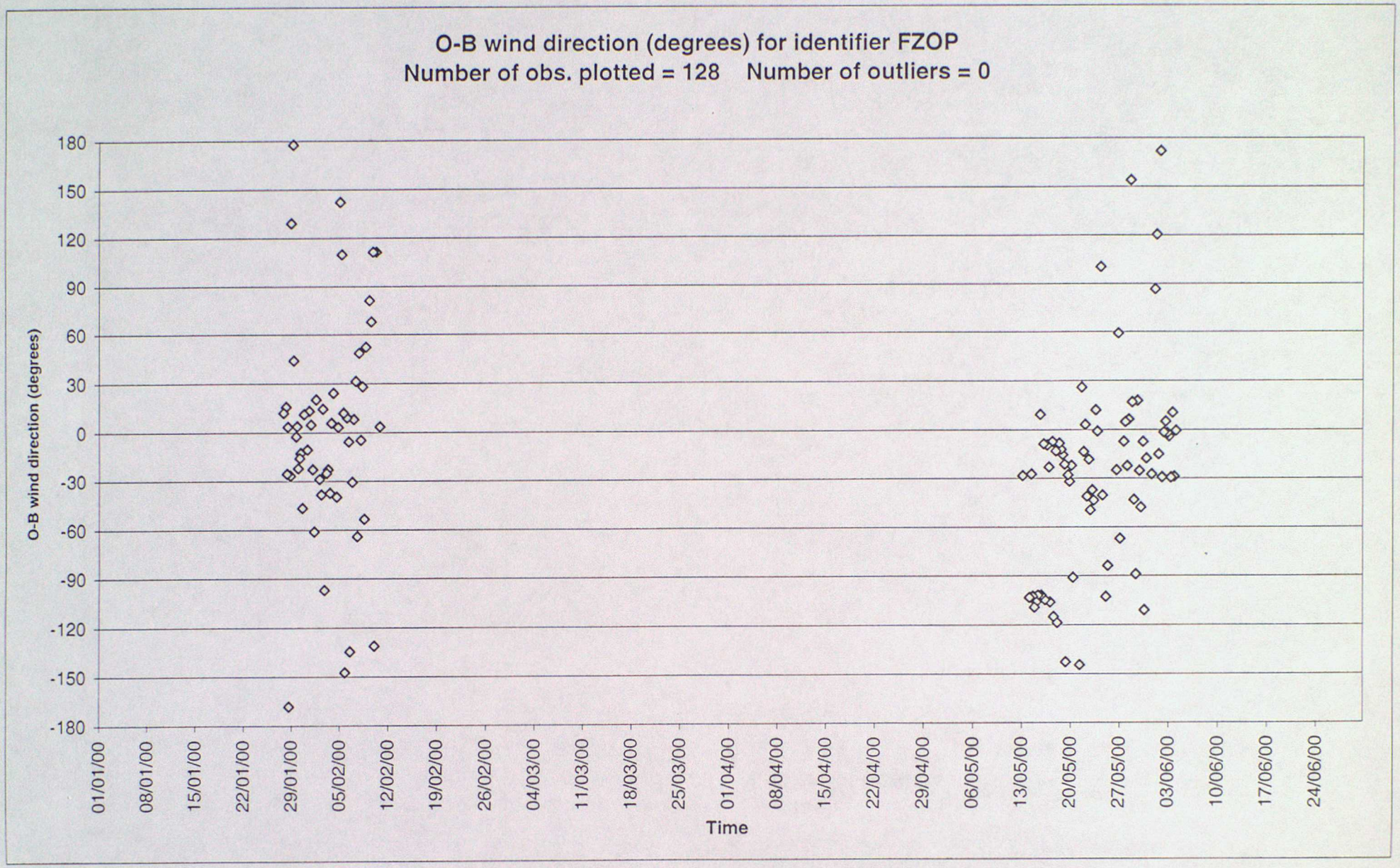

O-B wind speed (ms-1) for identifier 62762
Number of obs. plotted = 63 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

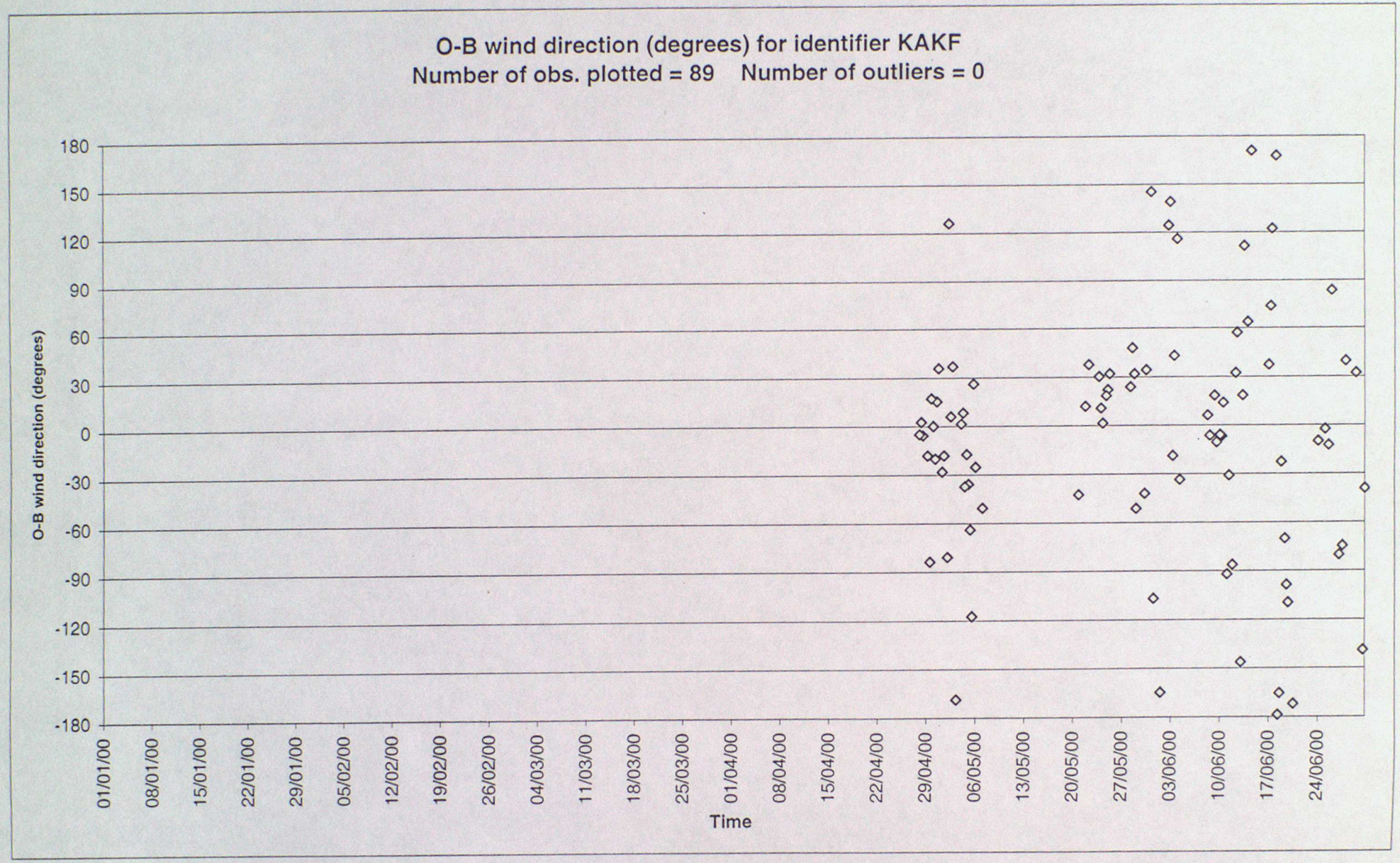

O-B wind speed (ms-1) for identifier 62764
Number of obs. plotted = 65 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

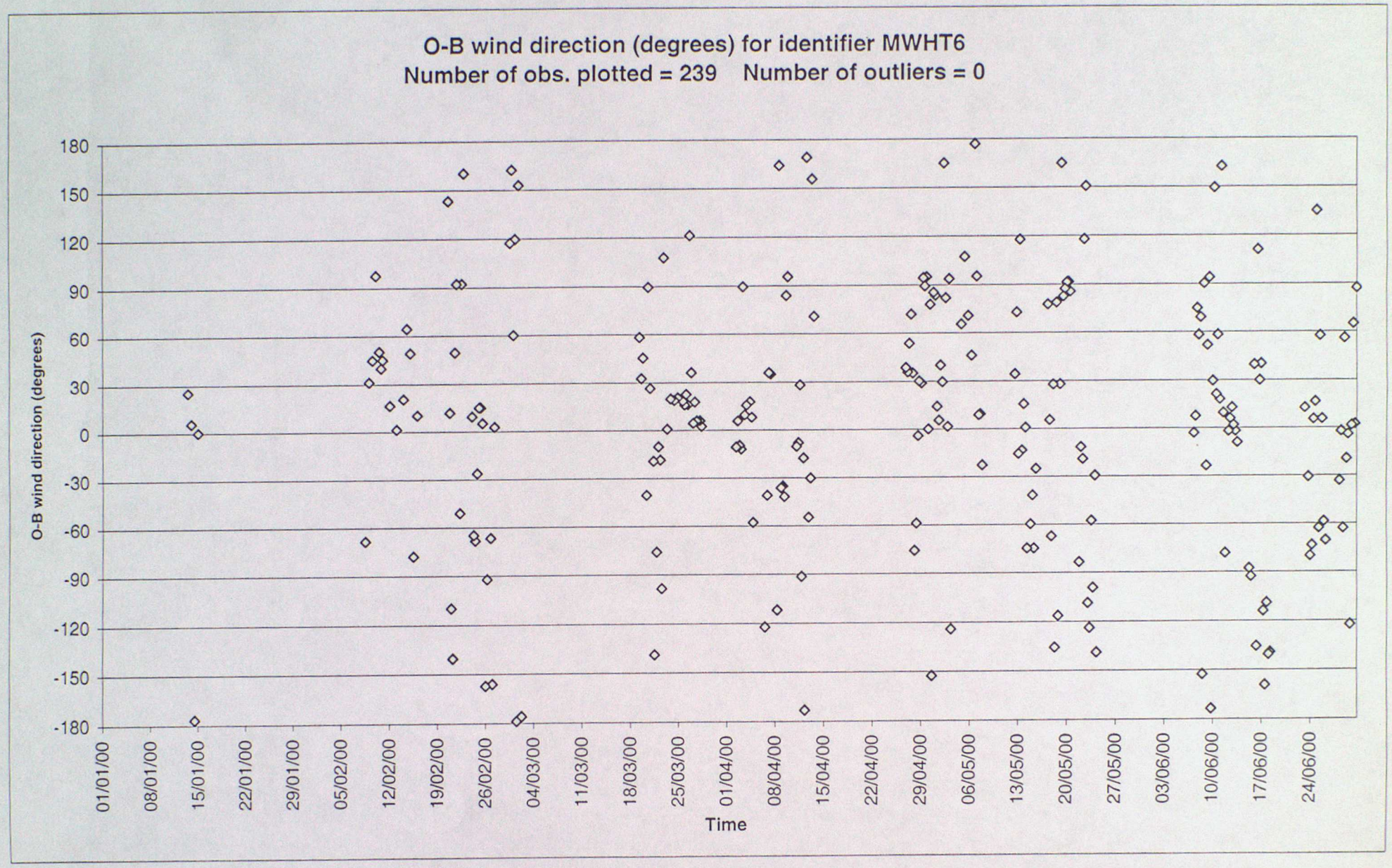

O-B wind speed (ms-1) for identifier 9MUG
Number of obs. plotted = 137 Number of outliers = 0
O-B wind speed (ms-1)
25
20
15
10
5
0
-5
-10
-15
-20
-25
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

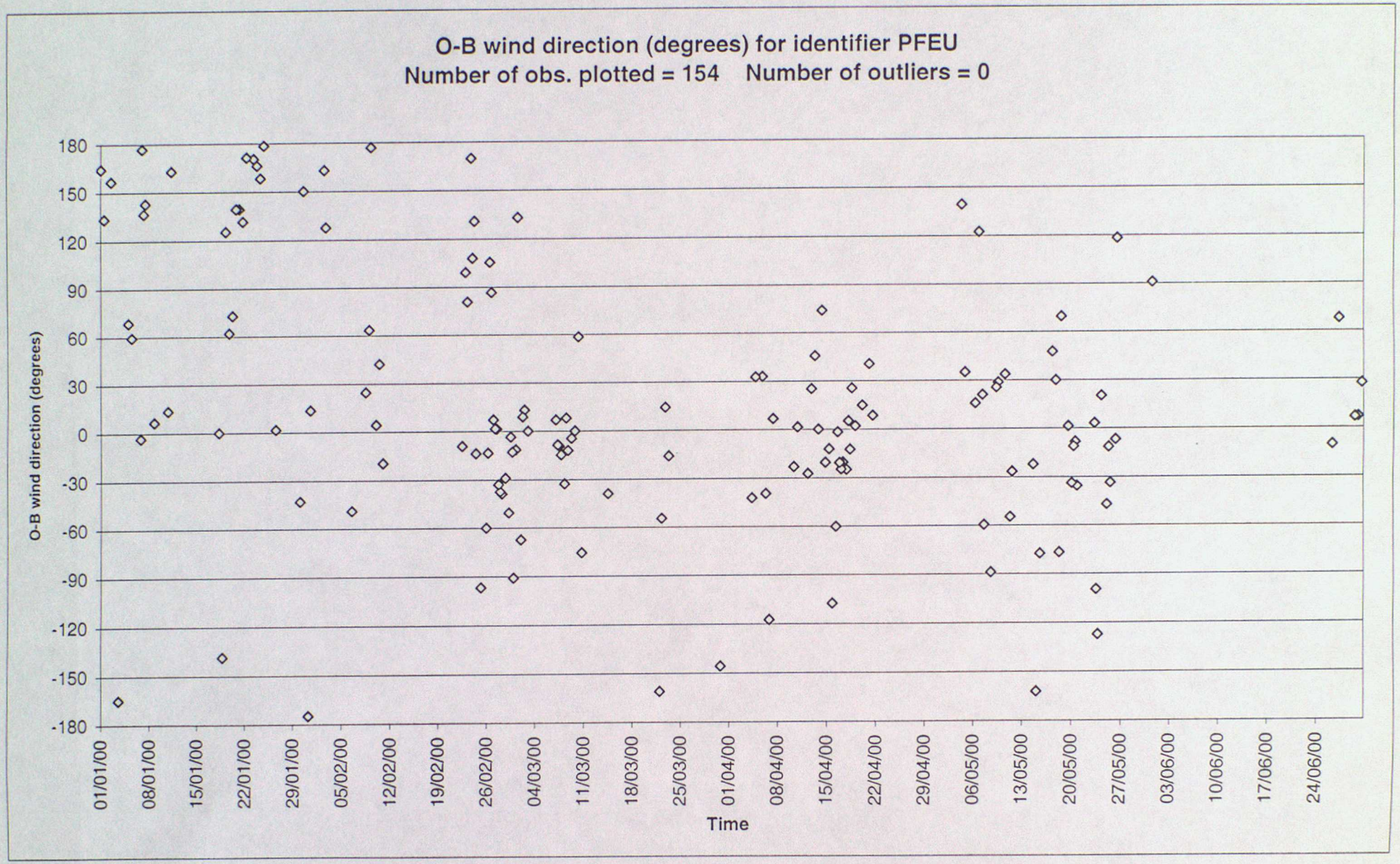

O-B wind direction (degrees) for identifier ELNV6
Number of obs. plotted = 53 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

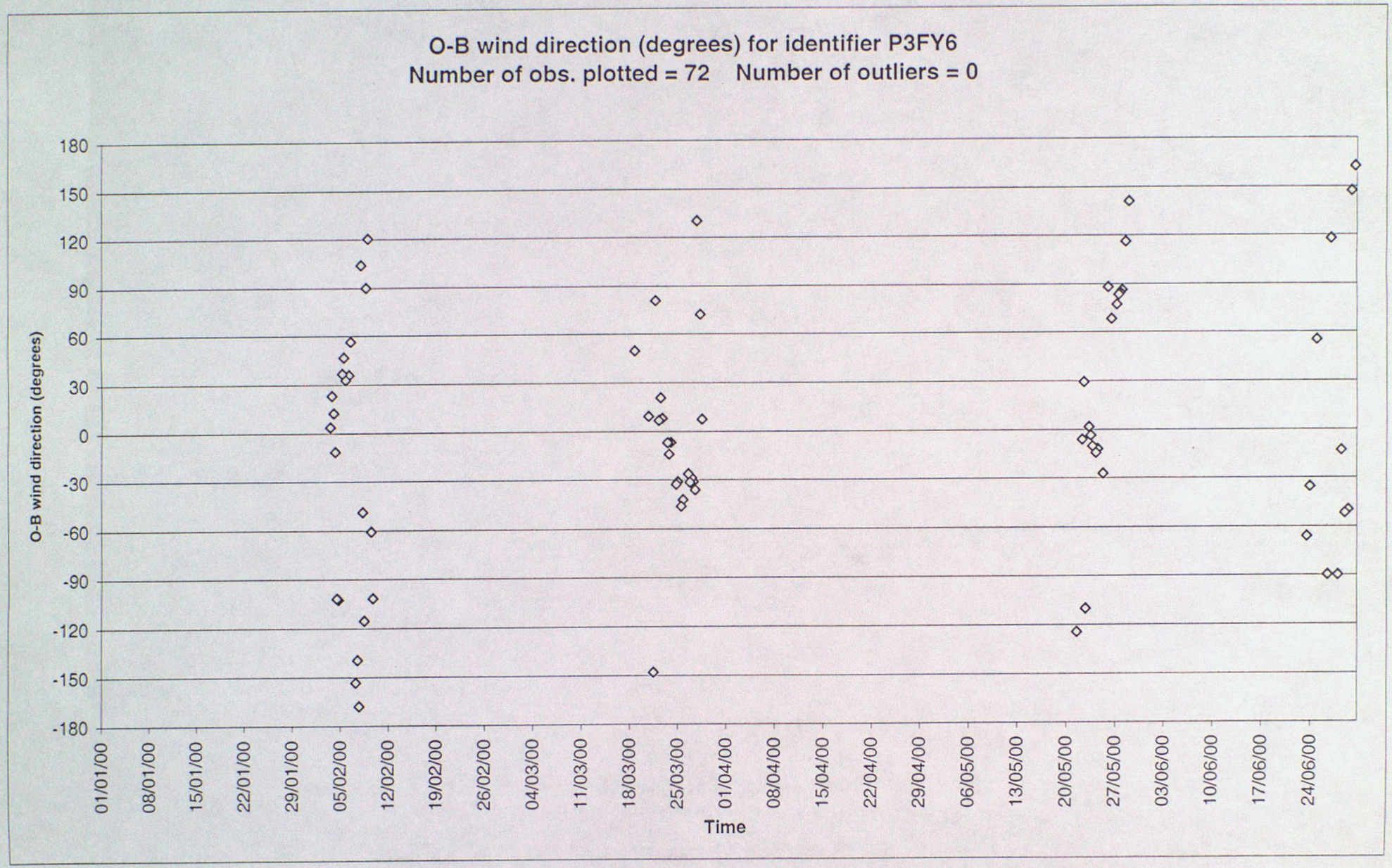

O-B wind direction (degrees) for identifier ELUB5
Number of obs. plotted = 149 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

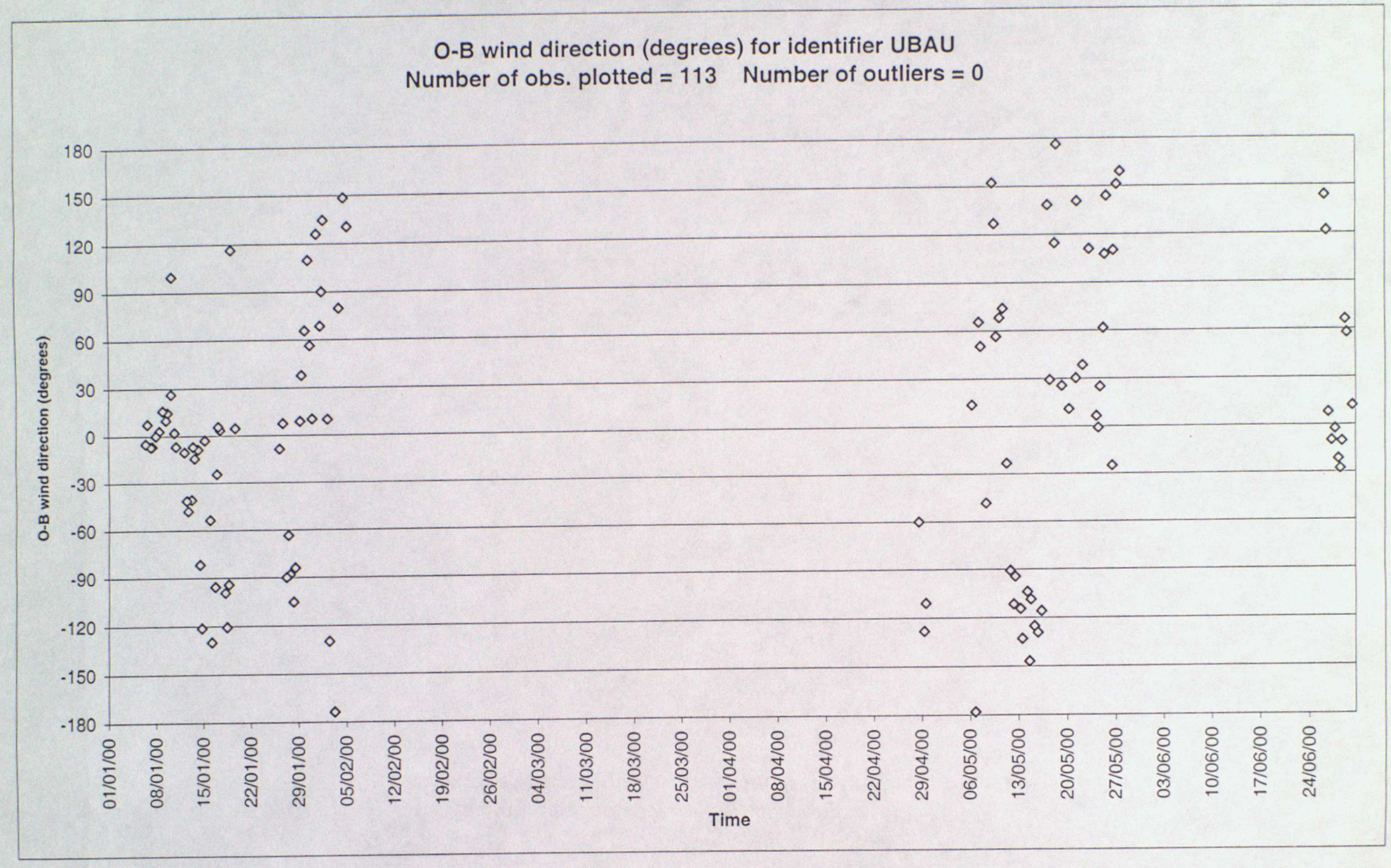

O-B wind direction (degrees) for identifier FZOP
Number of obs. plotted = 128 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

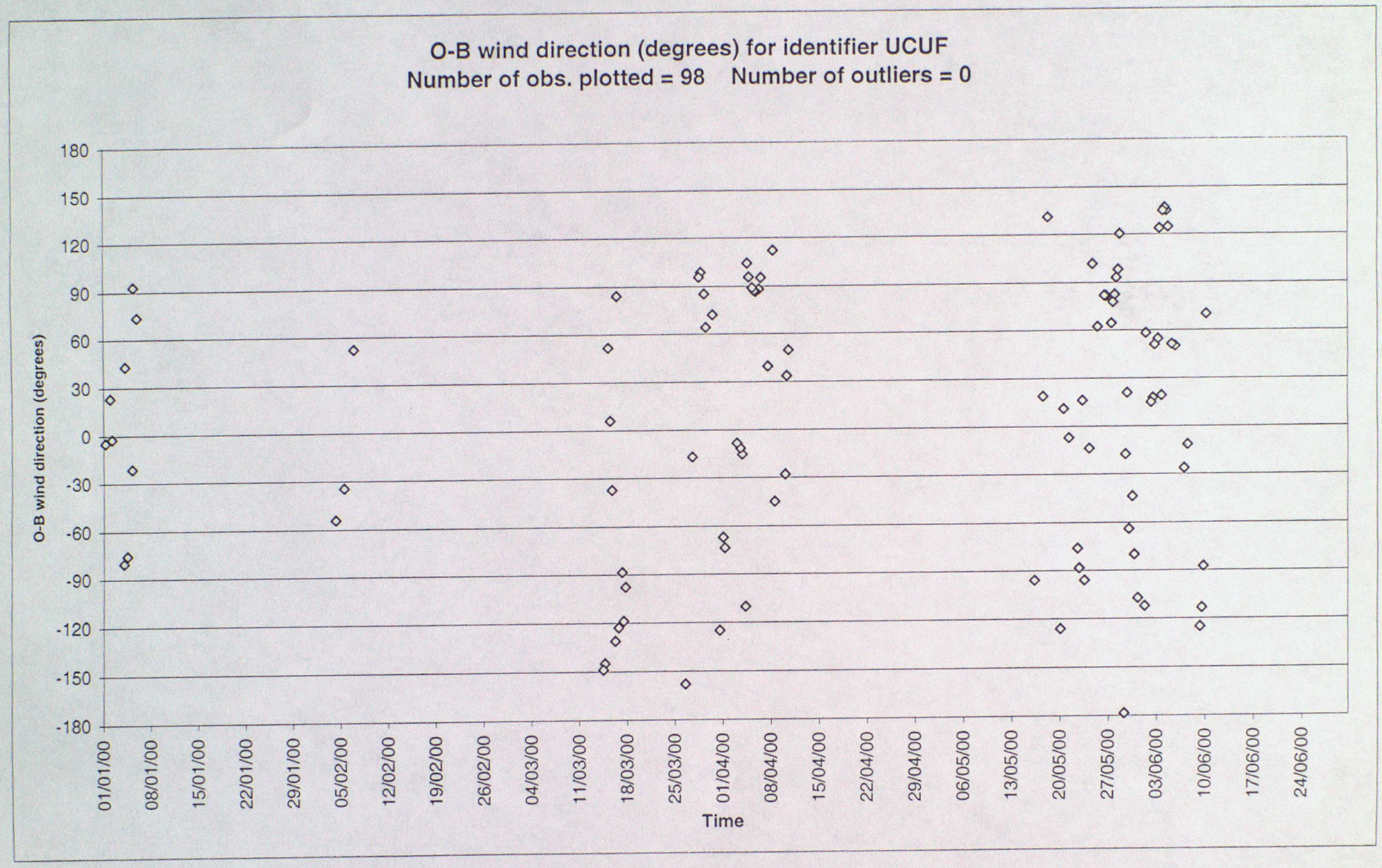

O-B wind direction (degrees) for identifier KAKF
Number of obs. plotted = 89 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

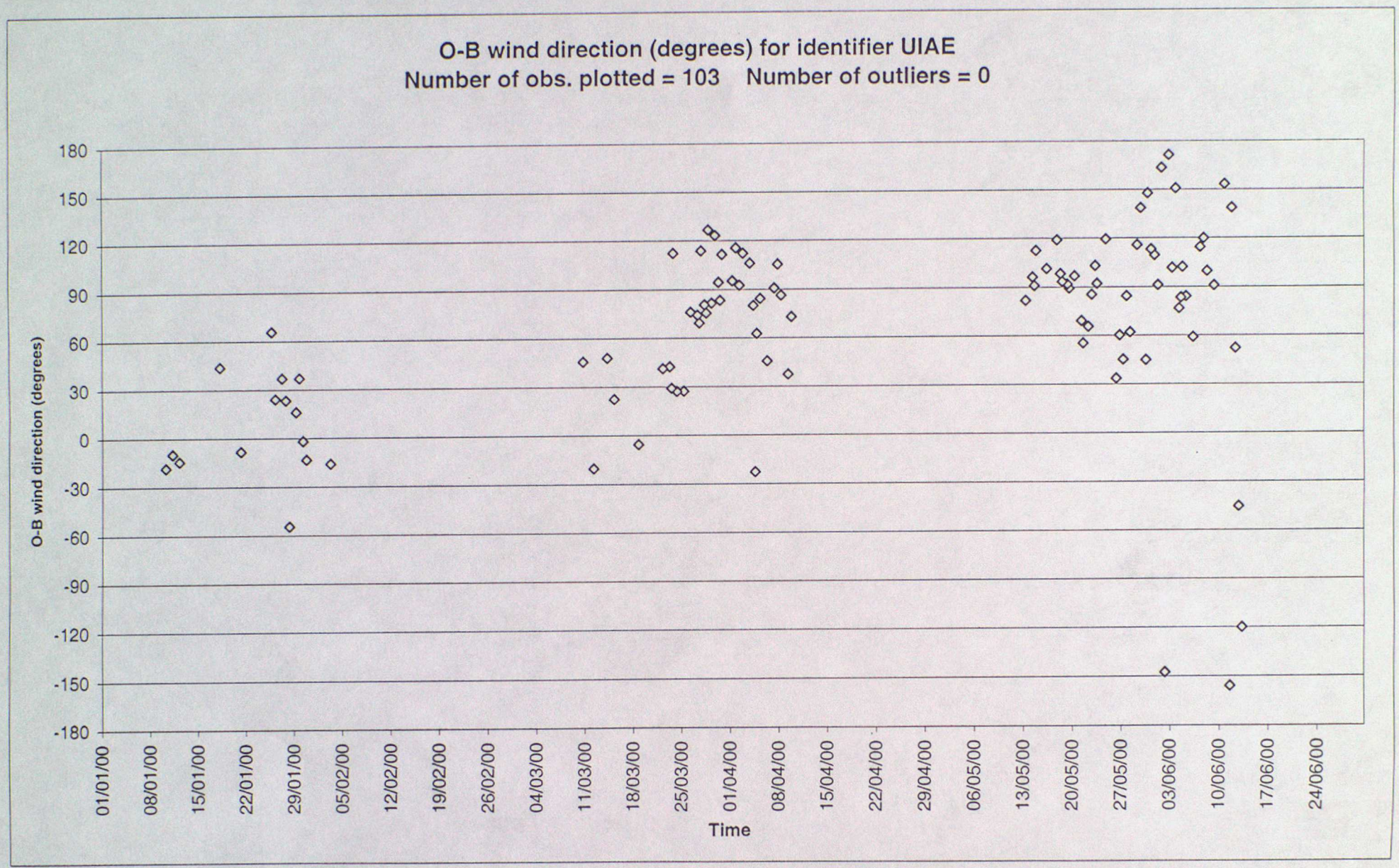

O-B wind direction (degrees) for identifier MWHT6
Number of obs. plotted = 239 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

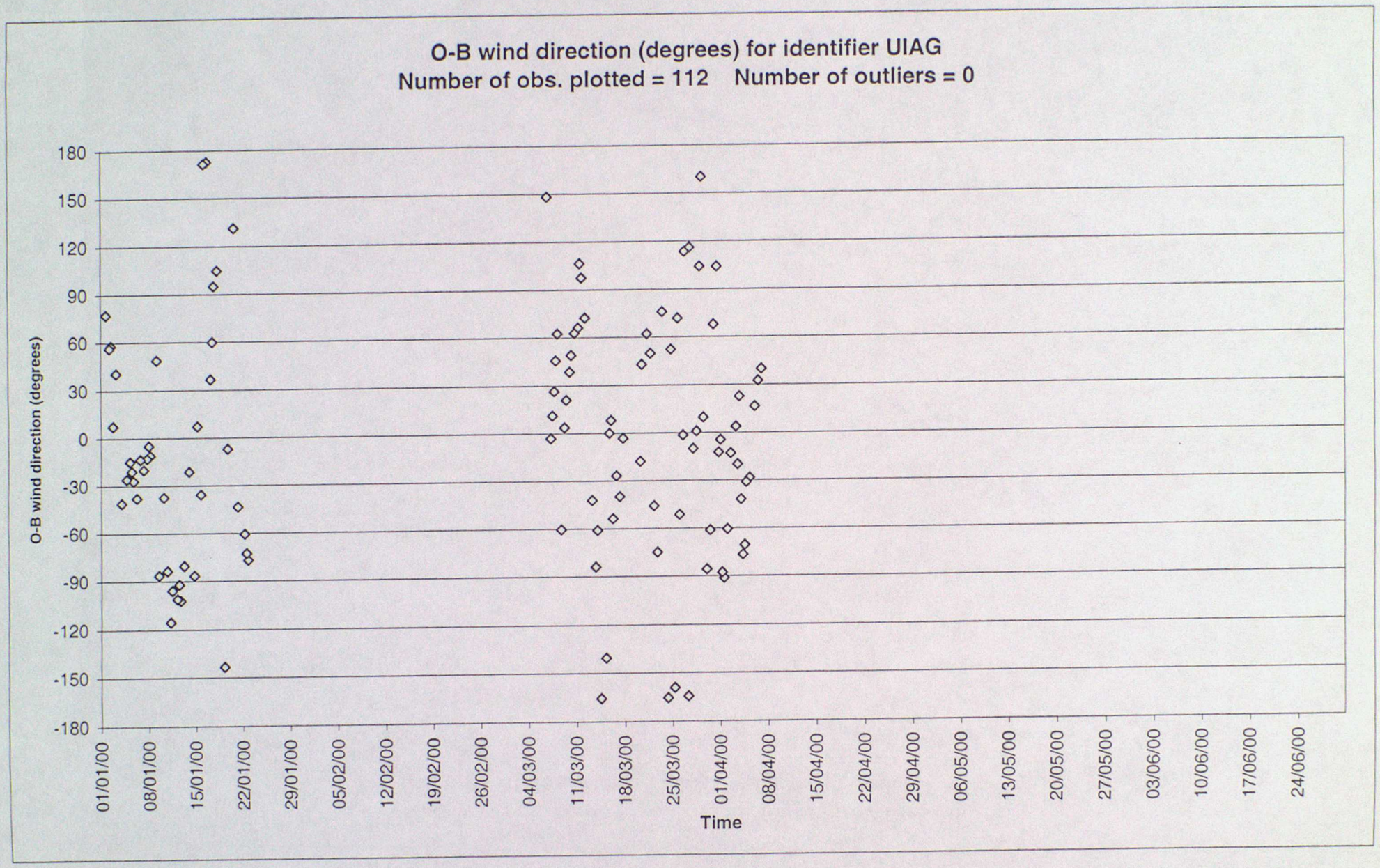

O-B wind direction (degrees) for identifier PFEU
Number of obs. plotted = 154 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

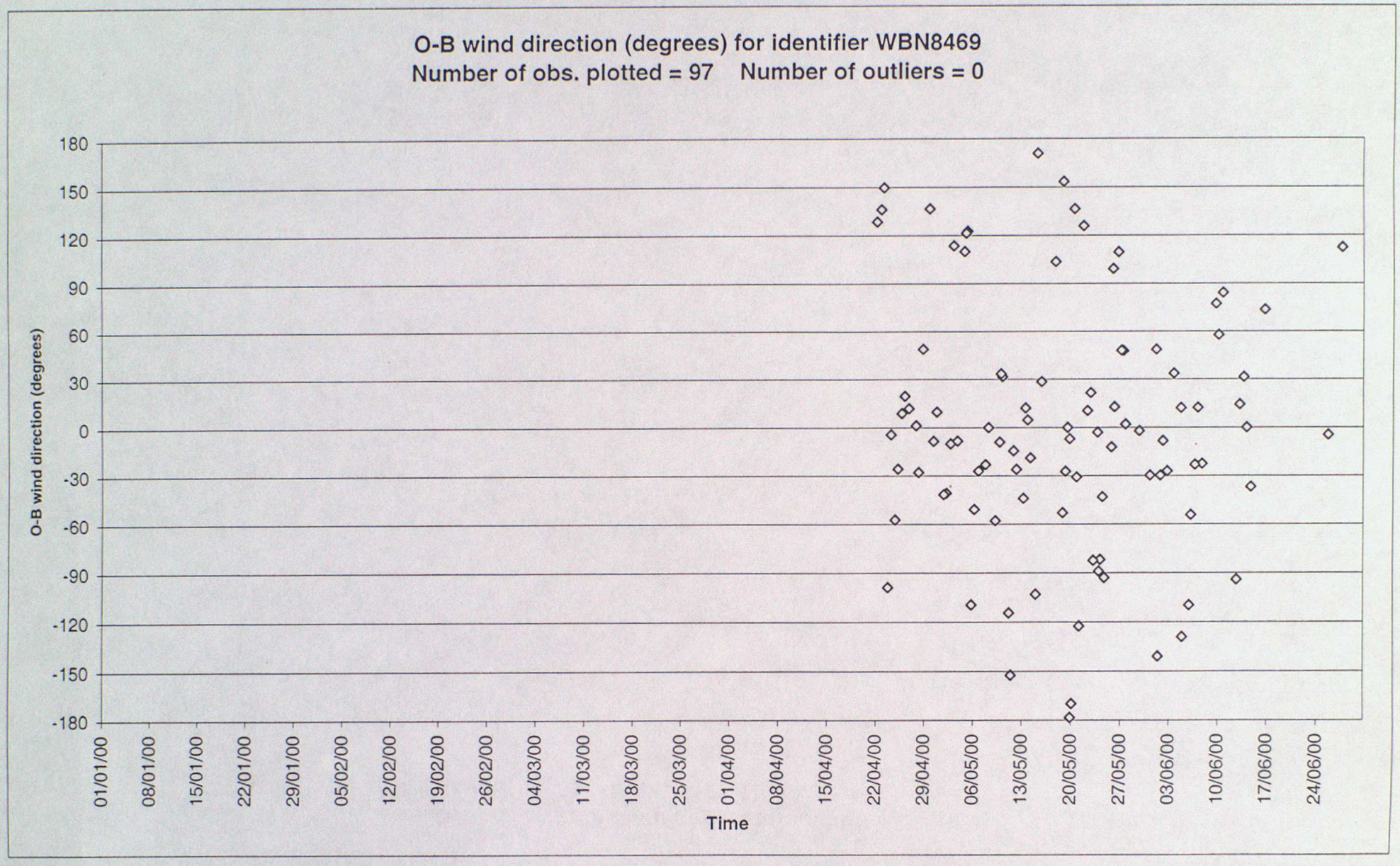

O-B wind direction (degrees) for identifier P3FY6
Number of obs. plotted = 72 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

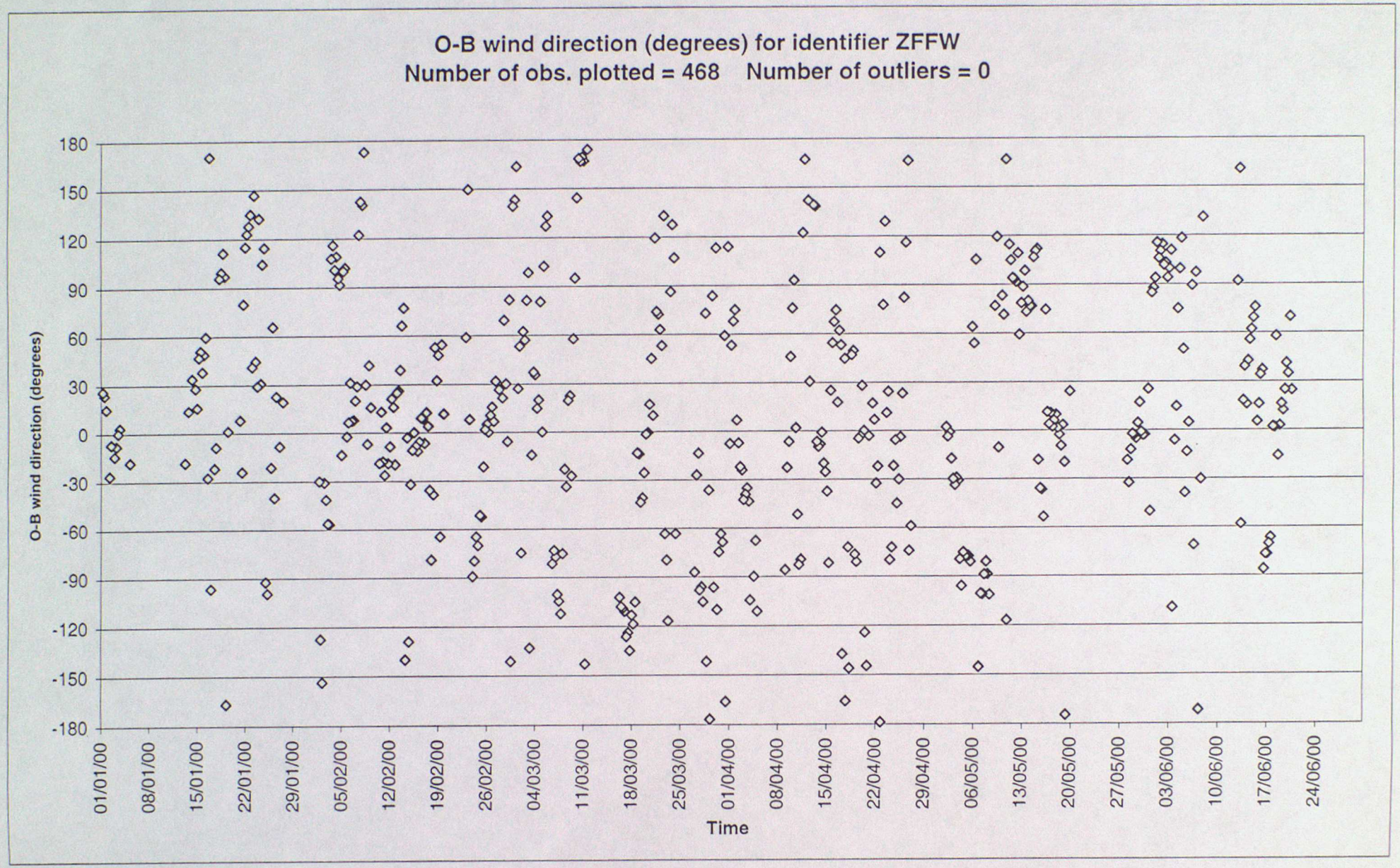

O-B wind direction (degrees) for identifier UBAU
Number of obs. plotted = 113 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind direction (degrees) for identifier UCUF
Number of obs. plotted = 98 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

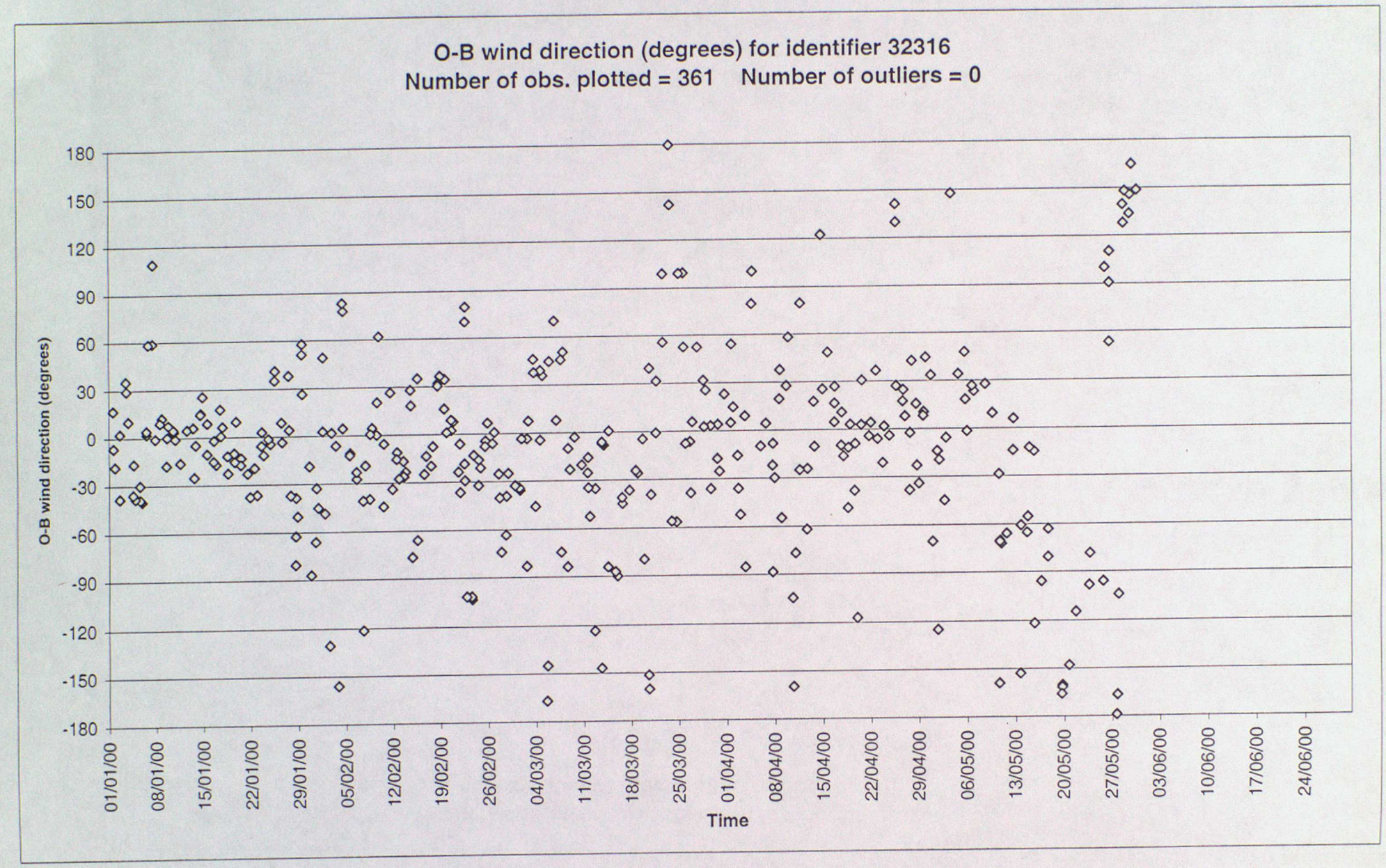

O-B wind direction (degrees) for identifier UIAE
Number of obs. plotted = 103 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

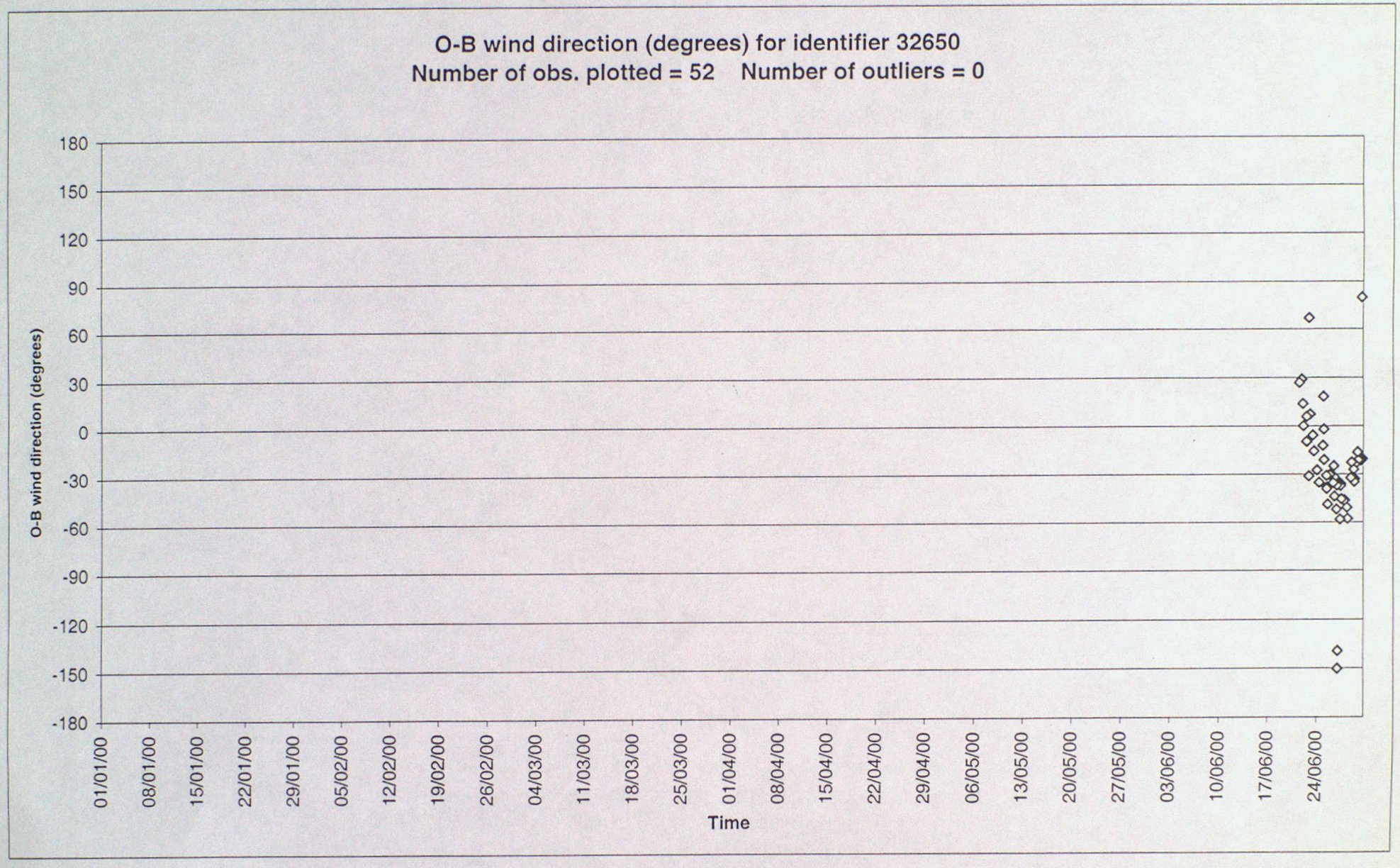

O-B wind direction (degrees) for identifier UIAG
Number of obs. plotted = 112 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind direction (degrees) for identifier WBN8469
Number of obs. plotted = 97 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind direction (degrees) for identifier ZFFW
Number of obs. plotted = 468 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B wind direction (degrees) for identifier 3FJR8
Number of obs. plotted = 60 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind direction (degrees) for identifier 32316
Number of obs. plotted = 361 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind direction (degrees) for identifier 32650
Number of obs. plotted = 52 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

O-B wind direction (degrees) for identifier 44657
Number of obs. plotted = 164 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
Time
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
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20/05/00
27/05/00
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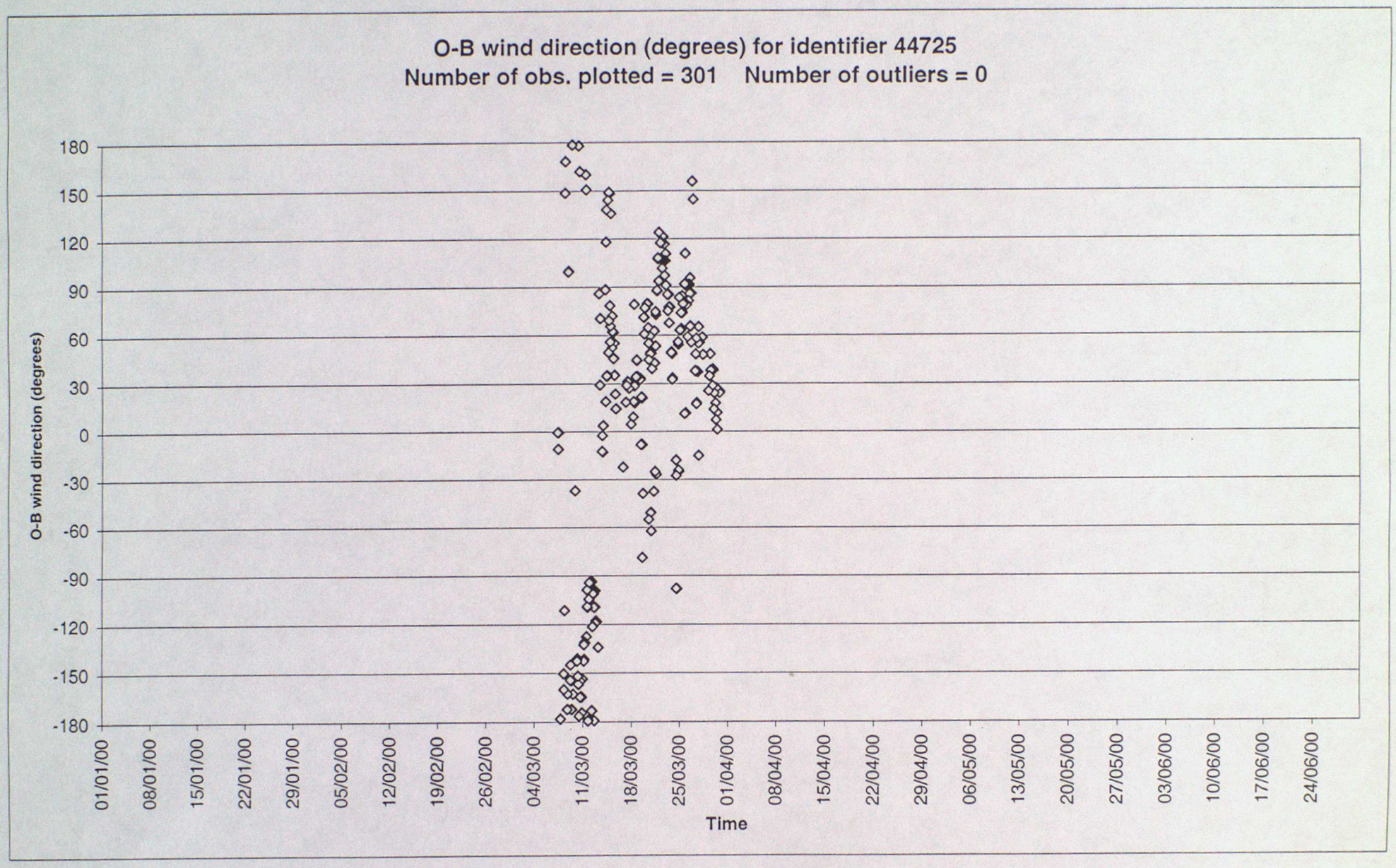
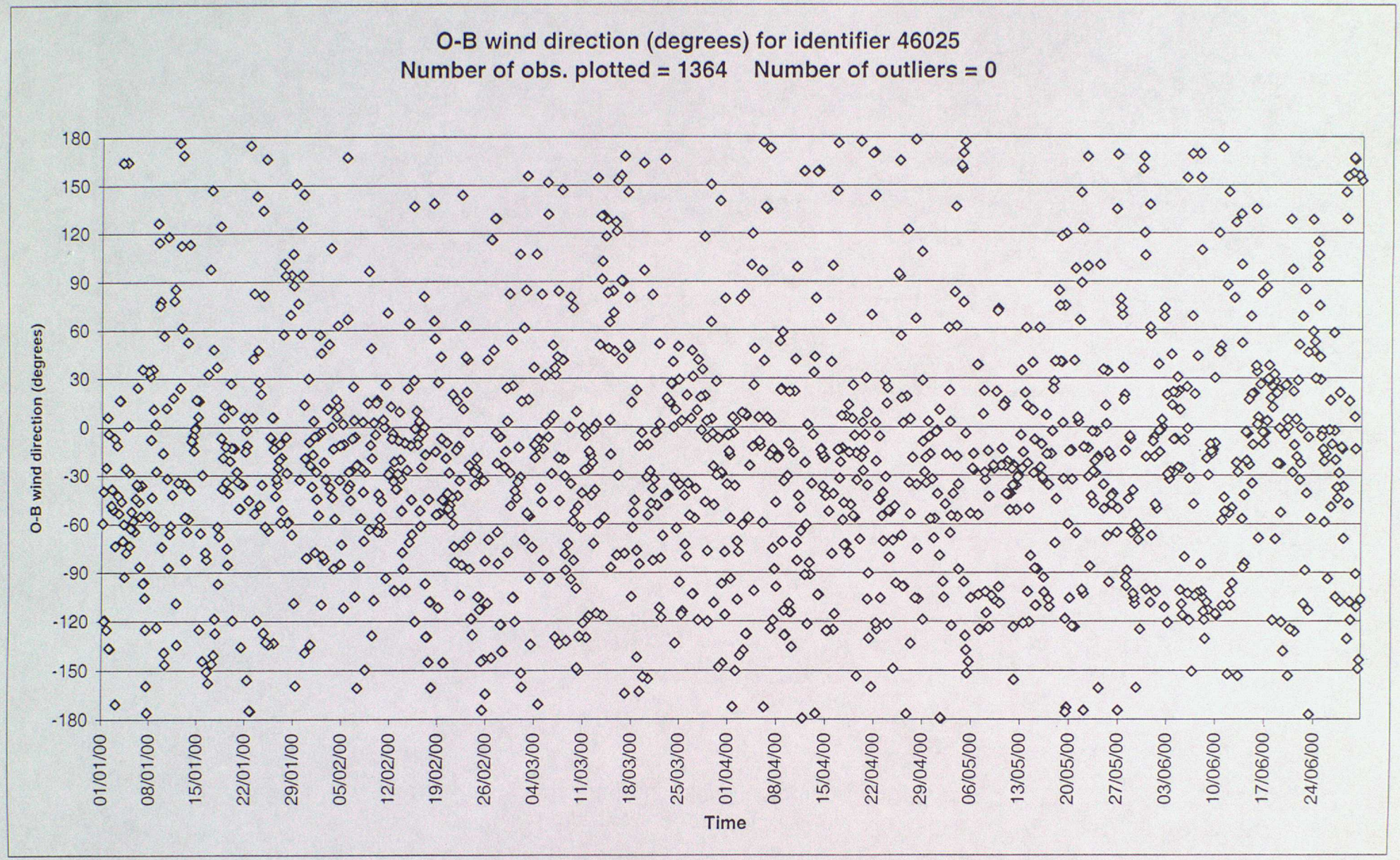
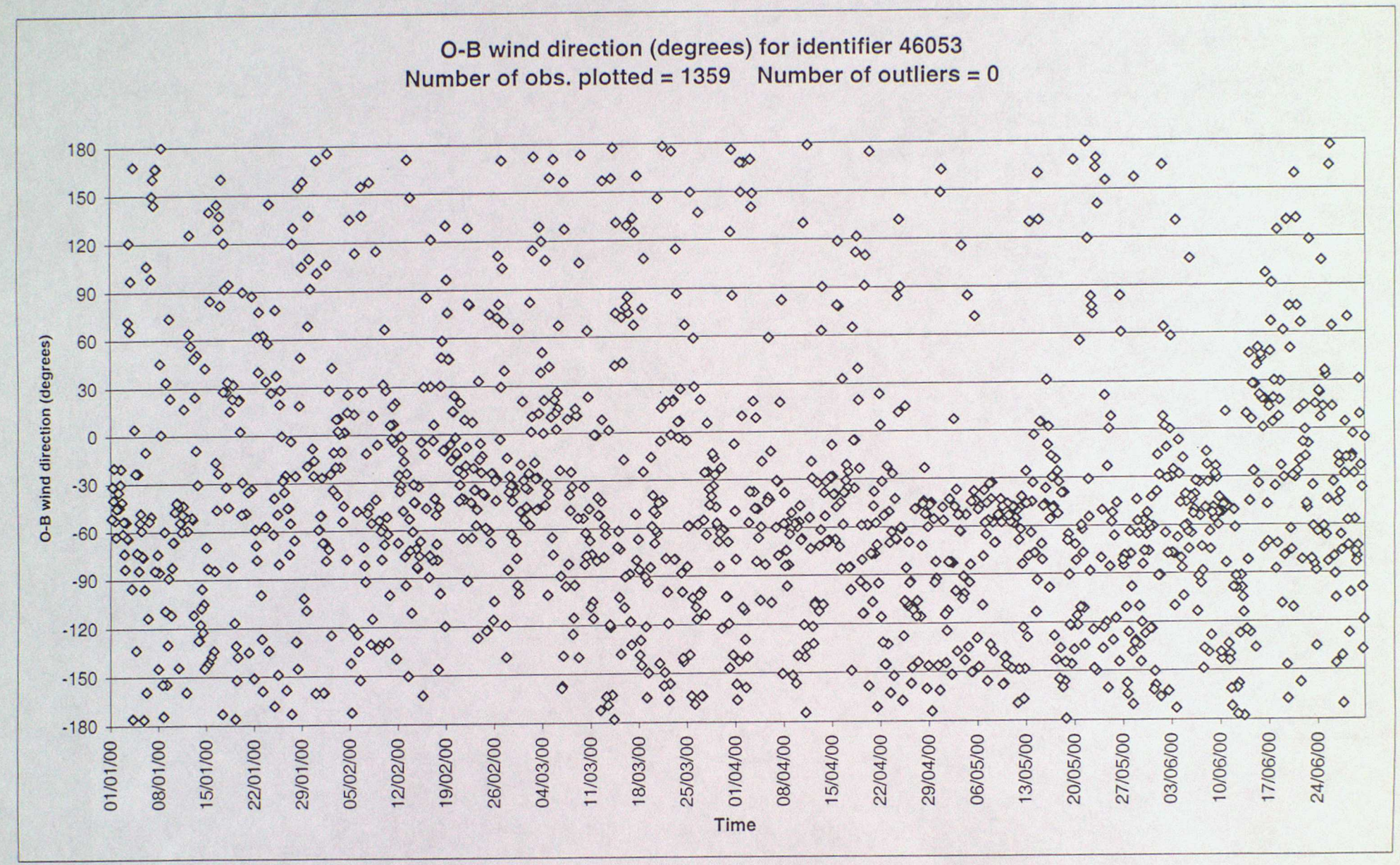
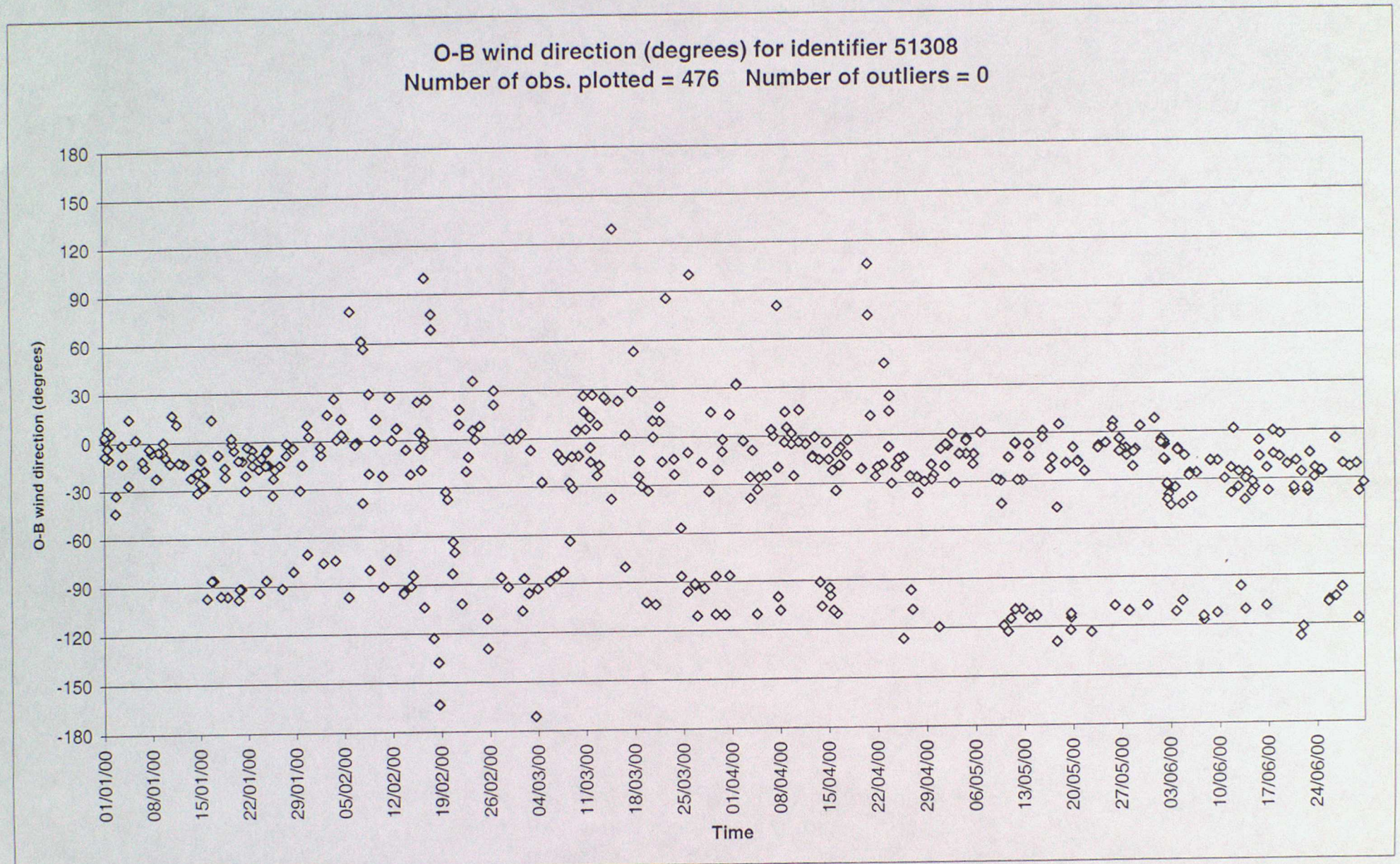
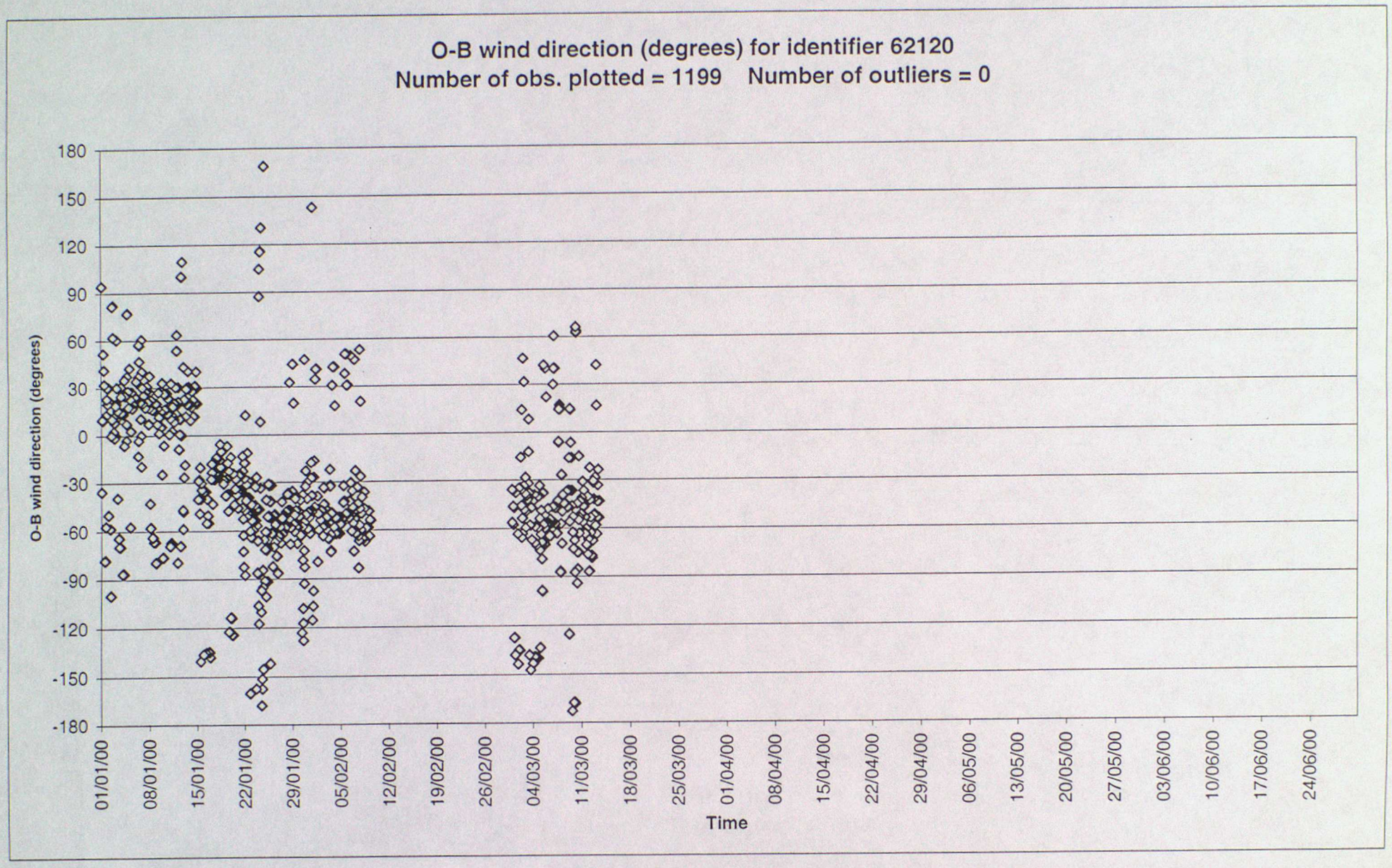
10/06/00
17/06/00
24/06/00

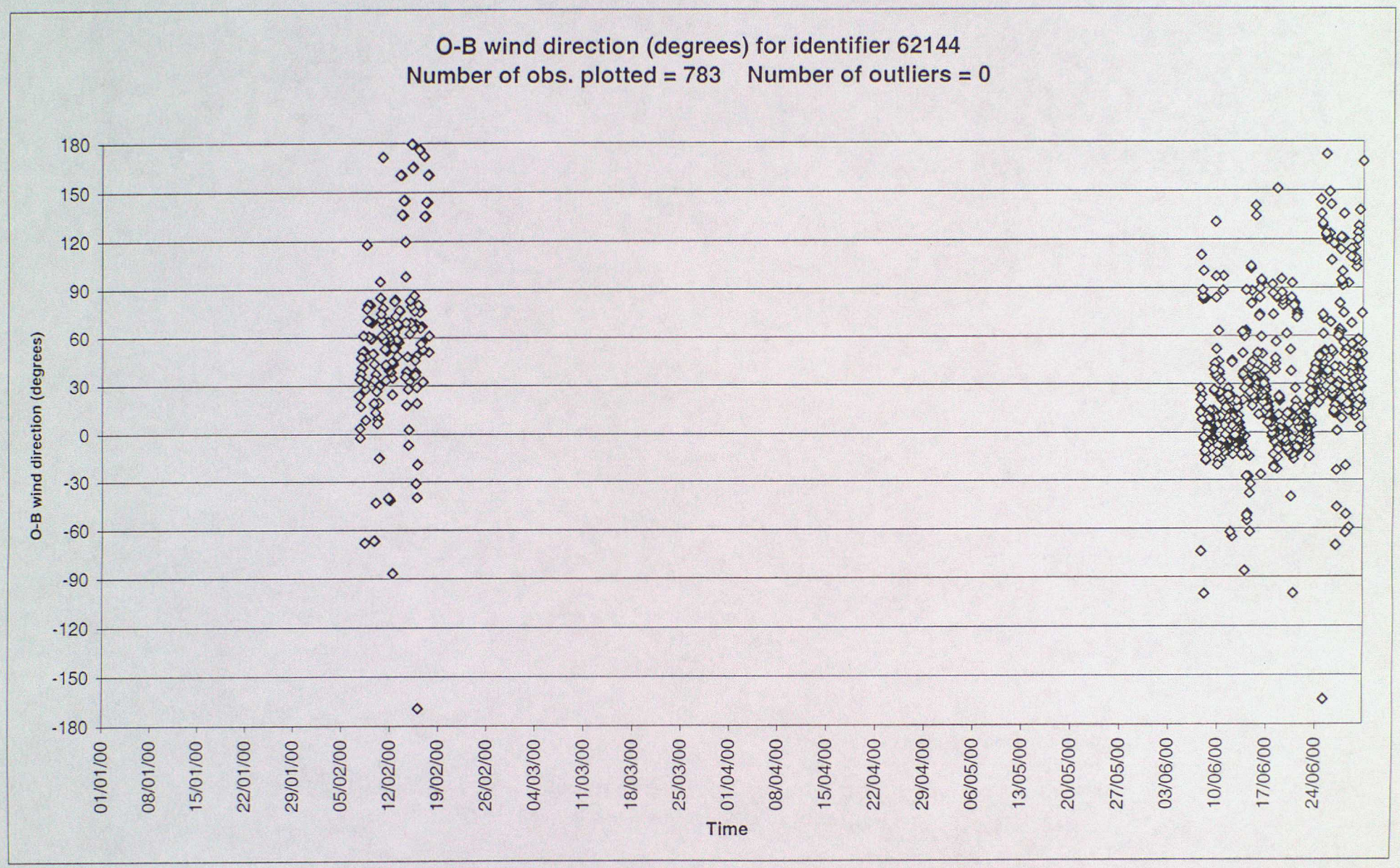

O-B wind direction (degrees) for identifier 44725
Number of obs. plotted = 301 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time

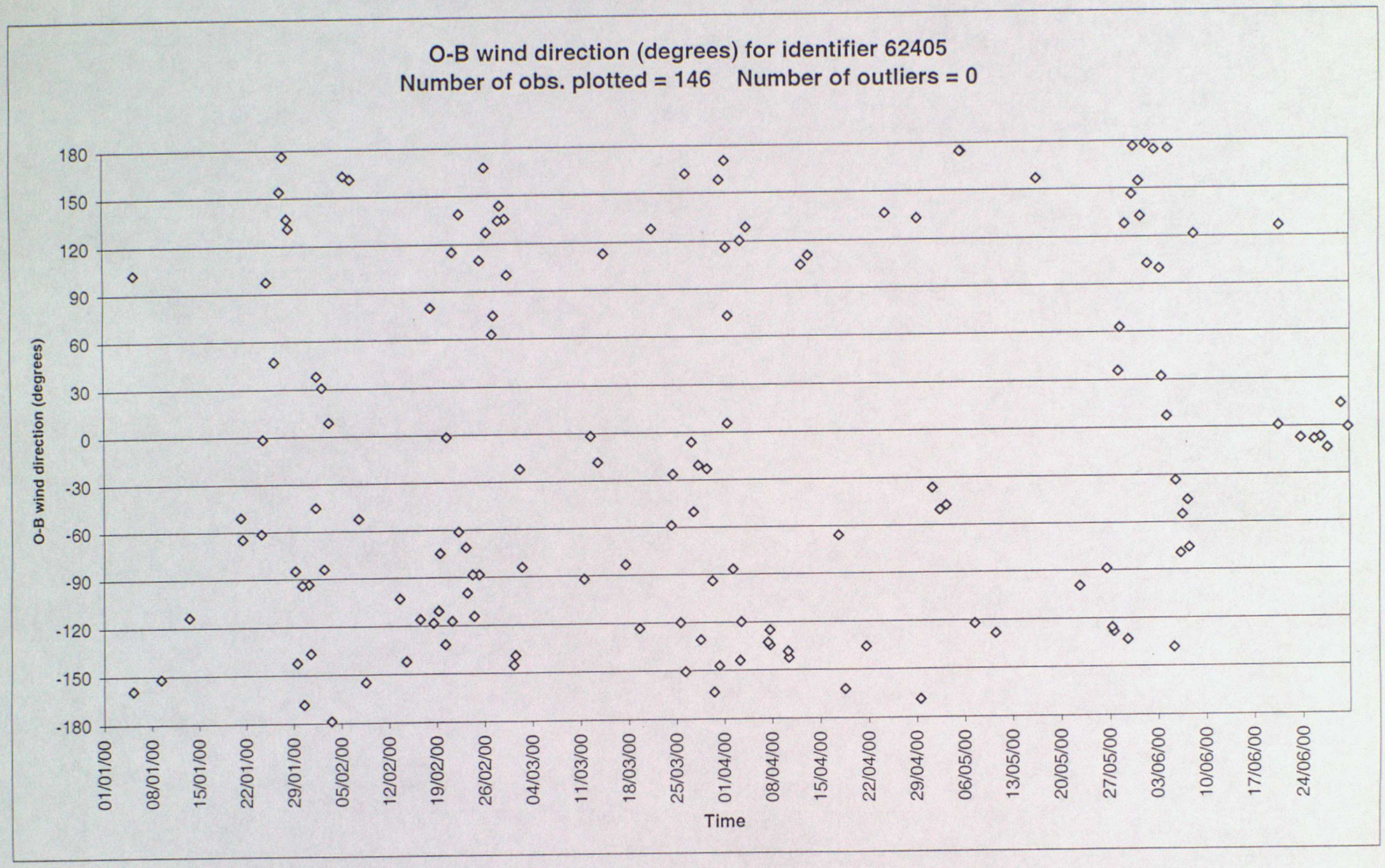

O-B wind direction (degrees) for identifier 46025
Number of obs. plotted = 1364 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind direction (degrees) for identifier 46053
Number of obs. plotted = 1359 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind direction (degrees) for identifier 51308
Number of obs. plotted = 476 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind direction (degrees) for identifier 62120
Number of obs. plotted = 1199 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind direction (degrees) for identifier 62144
Number of obs. plotted = 783 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time


O-B wind direction (degrees) for identifier 62405
Number of obs. plotted = 146 Number of outliers = 0
O-B wind direction (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180
01/01/00
08/01/00
15/01/00
22/01/00
29/01/00
05/02/00
12/02/00
19/02/00
26/02/00
04/03/00
11/03/00
18/03/00
25/03/00
01/04/00
08/04/00
15/04/00
22/04/00
29/04/00
06/05/00
13/05/00
20/05/00
27/05/00
03/06/00
10/06/00
17/06/00
24/06/00
Time